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F. H. EBELING

SYRACUSE, N. Y.



A FIELD OF YELLOW GLOBE DANVER ONIONS GROWN FROM OUR SEED BY A. WOODING, NEAR CICERO, N. Y.

SEEDS, HARDWARE, IMPLEMENTS. 54th Annual Catalogue.

A WORD OF APPRECIATION

This makes the 54th year in which we have served Central New York people in helping them to make an annual success of their harvests.

The fact that the children and grandchildren of my first customers are now my regular patrons, proves that the house of Ebeling has not only won but has held the complete confidence of its customers.

For 54 years our policy has been to import, contract for and handle only the highest grade seeds, bulbs, and supplies for the farm, garden, greenhouse, lawn, dairy or poultry yard.

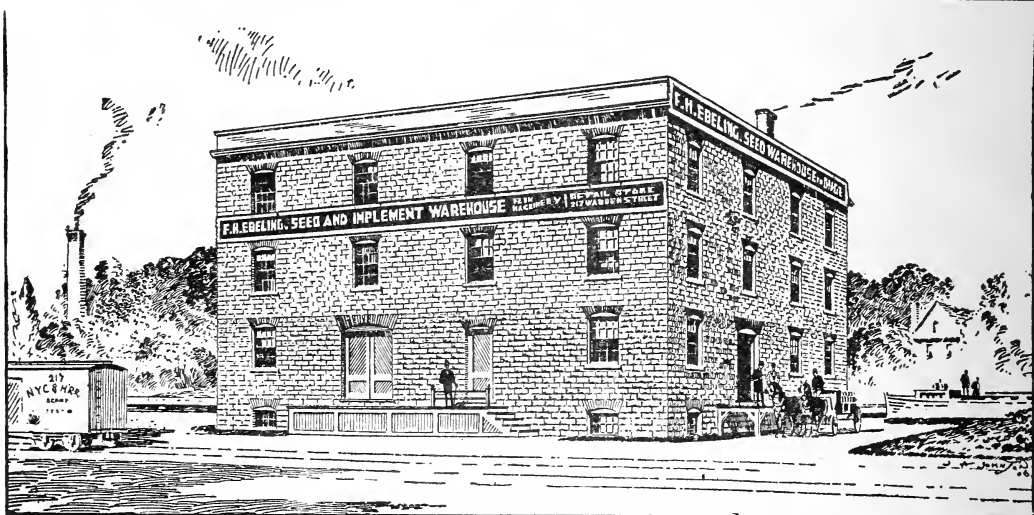
We wish to take advantage of this opportunity to thank you, the reader, for the kind words in our behalf that you have extended to your friends and neighbors. It is valued far more than the profits of the business to which it has contributed. As a result of your co-operation, the year just passed has proved most successful.

Assuring you that my heartiest hope is that this, my latest Catalog and Seed Book, will in turn more than do its share to make your 1920 the happiest and most prosperous of all years, I remain

Yours very truly,

January 1, 1922.

F. H. EBELING.



**F. H. EBELING'S SEED AND IMPLEMENT WAREHOUSE, 538-540 CANAL STREET
RETAIL STORE, 217 WARREN STREET**

USEFUL TABLES

Of Plants per Acre at the following distances apart.

¼ ft. by 1 ft.	43,560	6 ft by 6 ft.	1,210
½ " " 1 ½ ft.	19,360	8 " 8 ft.	680
" " 2 ft.	21,780	9 " 9 ft.	537
" " 2 ½ ft.	10,898	10 " 10 ft.	435
" " 3 ft.	6,969	12 " 12 ft.	302
" " 1 ft.	14,520	15 " 15 ft.	193
" " 2 ft.	7,260	18 " 18 ft.	134
" " 3 ft.	4,840	20 " 20 ft.	103
" " 4 ft.	2,722	25 " 25 ft.	70
" " 5 ft.	1,742	30 " 30 ft.	48

Number of Plants Produced from 1 oz. of Seed.

	Plants		Plants
Asparagus	about 500	Kale	about 2,000
Broccoli	" 2,000	Leek	" 1,000
Cabbage	" 3,000	Lettuce	" 3,000
Cauliflower	" 4,000	Pepper	" 2,000
Celery	" 4,000	Sage	" 1,000
Egg Plant	" 1,000	Tomato	" 3,000
Endive	" 3,000	Thyme	" 5,000

SEED SOWN PER ACRE

Seed Sown per Acre

Weight per bu.

Alfalfa, or Lucerne 20 to 30 lbs.	60 lbs.
Barley, 1½ to 2 bu.	48 lbs.
Beans, Field, ¼ to ½ bu.	60 lbs.
Beans, Green Soy, ¼ bu.	60 lbs.
Beet, 4 to 6 lbs.	
Blue Grass, 2 bu.	14 lbs.
Bromus Inermis, 20 lbs.	14 lbs.
Buckwheat, 1 to 1½ bu.	48 to 50 lbs.
Cabbage, ¼ lb.	
Carrot, 2½ to 3 lbs.	20 lbs.
Clover, Alsike, 5 to 10 lbs.	60 lbs.
Clover, Crimson, 15 lbs.	60 lbs.
Clover Red, 10 to 15 lbs.	60 lbs.
Clover, Sweet, 25 lbs. Melilotus Alba	60 lbs.
Clover, White, 10 to 12 lbs.	60 lbs.
Corn, Ensilage, ¼ to ½ bu.	56 lbs.
Corn, Field, ¼ bu.	56 to 60 lbs.
Corn, Sweet, ¼ bu.	about 45 lbs.
Cucumber, 1 lb.	
Lawn Seed, 1 lb to 250 sq. ft.	25 to 30 lbs.
Meadow Fesene, 2 bu.	22 lbs.
Meadow Foxtail, 3 bu.	7 lbs.
Meadow Grass, Rough Stalk, 35 lbs.	18 lbs.
Flax Seed, ½ to ¾ bu.	56 lbs.
Millet, ½ to ¾ bu.	50 lbs.

Seed Sown per Acre

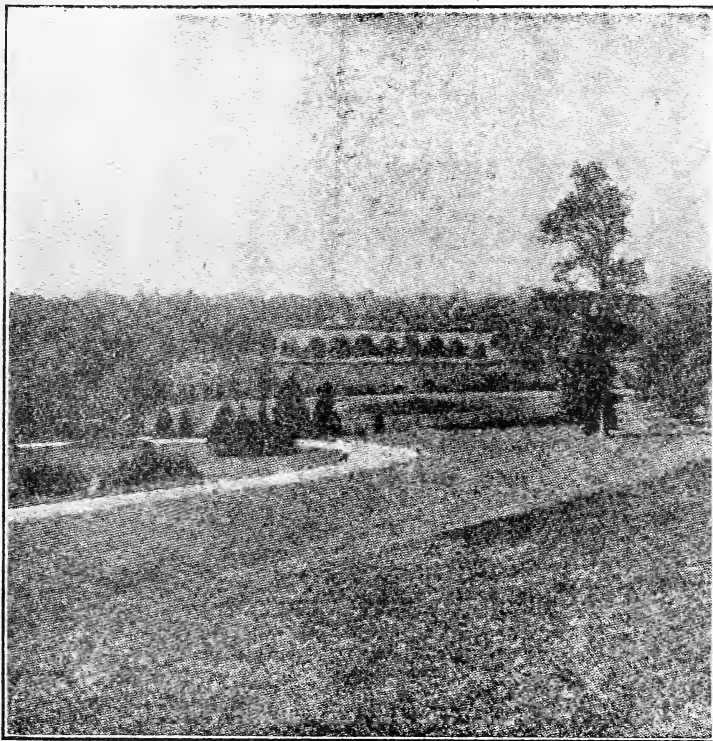
Weight per bu.

Millet, Hungarian, ½ to ¾ bu.	48 lbs.
Millet, Japanese, ½ bu.	32 lbs.
Oats, 2 to 3 bu.	32 lbs.
Onion, 5 to 6 lbs.	56 lbs.
Orchard Grass, 2 bu.	14 lbs.
Peas, Field, 2½ bu.	60 lbs.
Peas, Cow, ½ bu.	about 50 lbs.
Peas, Wrinkled, 1 to 1½ bu.	about 50 lbs.
Potatoes, 6 to 8 bu.	60 lbs.
Pumpkin Seed, 4 qts.	27 lbs.
Rape, Dwarf Essex, 4 to 6 lbs.	50 lbs.
Red Top, Re-cleaned, 15 lbs.	30 lbs.
Rye, 1 to 2 bu., Winter and Spring	56 lbs.
Sorghum, 1½ to 2 bu.	56 lbs.
Spinach, 8 to 10 lbs. Squash, 2½ lbs.	
Sweet Vernal, 1 to 1½ bu.	11 lbs.
Timothy, ¼ to ½ bu.	45 lbs.
Turnip, 1 lb.	
Vetch, Hairy, drilled (plus 1 bu. small grain) 25 lbs.	60 lbs.
Vetch, Hairy, broadcast (plus 1 bu. small grain) 75 lbs.	60 lbs.
Vetch, Spring (plus 1 bu. small grain) 25 lbs.	60 lbs.
Wheat, 2 bu., Winter and Spring.	60 lbs.

NON-WARRANTY.—F. H. Ebeling gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants he sends out, and he will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

EBELING'S EXTRA LAWN GRASS MIXTURE

This mixture will insure a beautiful, compact, evergreen sod on any lawn where the essential requirements of grass culture have been complied with. Its component parts are the grasses peculiarly adapted to lawns and door yards, including choice selected strains of Kentucky Blue, etc., along with the best known creeping or sod forming sorts. We have included a little white clover in the mixture, regarding it as essential. Full provision is made for a succession of growth, so that there shall be no break in the richness of the verdure from spring until autumn, and experience proves that Ebeling's Extra Lawn Grass Mixture is now perfect. Nothing better can be purchased on the American market, no matter what claims may be advanced by other seedsmen. This is because we employ the choicest and heaviest strains of grass seed in making the mixture. As to preparation of the soil, we recommend a thorough working and manuring to a depth of 8 or 9 inches, and a regular semi-annual application of top dressing afterward. It is a good practice to use Sheep Fertilizer and Ground Bone in the spring and fall; also, to renovate the lawn every spring with a little fresh seed. Per lb. 30c. Special price for quantity.



How to Make a Lawn

Have soil thoroughly spaded up, enriched with commercial fertilizer or well rotted manure, level and roll it well to make compact. Select a still, damp day for seeding; sow one-half of the seed from north to south and half from east to west, rake it over and roll again. When grass comes up re-seed the bare spots. When grass is 2 inches high cut it, and as necessary thereafter. Don't rake up short clippings, as they make a good mulch. Always thoroughly soak a lawn when sprinkling, whenever required, but never sprinkle lightly.

QUANTITIES TO USE

For 200 sq. ft. . . . 1 lb.
For 1000 sq. ft. . . . 5 lbs.
For 2000 sq. ft. . . . 10 lbs.
For one acre. . . . 150 lbs.

For renovating old lawns about half the above is sufficient.

GROUND BONE. Excellent for grass plots, gardens, etc. 5 lbs. 25c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00.

SHEEP MANURE, PULVERIZED. (Wizard Brand.) A pure natural manure, unequaled for mixing with potting soil, for lawns, general vegetable and flower garden fertilizer. 5 lbs. 25c; 10 lbs. 40c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00.

HARDWOOD ASHES. Indispensable as a lawn dressing, or to apply to orchards. Should be applied late in fall or early spring. 5 lbs. 20c; 10 lbs. 35c; 25 lbs. 60c; 100 lbs. \$2.50.

LAND PLASTER. Much used in composting or mixed with guano, etc. 100 lbs., \$1.75.

LIME (Hydrated). For lawn and field use where the ground has become sour. 50 lbs. \$1.00; 100 lbs. \$1.75.

BOWKER'S PLANT FOOD FOR HOUSE PLANTS. (Odorless.) The best Plant Food on the market. May be used either dry or liquid. Especially fine for ferns. Price, 15c per pkg.

BLOOD. (Dried.) One of the quickest acting fertilizers, being immediately soluble. 5 lbs. 30c; 25 lbs. \$1.50; 100 lbs. \$4.00.

SALT, AGRICULTURAL. For topdressing asparagus beds. Apply very early in spring at the rate of 800 to 1000 pounds per acre.

SCOTCH SOOT. (Genuine Imported.) Gardeners know the value of the genuine article for stimulating a healthy growth of dark green foliage, and its beneficial effect in freeing the soil from slugs, grubs and cut worms. Bag, 112 lbs., \$4.00.

TOBACCO STEMS. An indispensable lawn covering for winter. It not only acts as a protector, but imparts large quantities of ammonia and drives away insects and moles. Bale, \$1.00 to \$3.00.

NITRATE OF SODA. A fertilizer for all crops. It is very quick in action and hastens maturity of crops fully two weeks. Being quickly soluble, it should not be applied until the plants are above ground. 5 lbs. 50c; 25 lbs., \$1.50; 100 lbs., \$4.50. Large quantities, prices on application.

ANGLEWORM REMEDY. One teaspoonful Corrosive Sublimate in 3 gal. of water. Sprinkle on the ground affected by worms, which forces them out and then can be raked up.

SPIRAL

The Handiest Garden Tool
ever invented

For the Lady Who Works In Her Own Carden

The SPIRAL—a new principle applied to tillage—does the work of a hoe, a rake, a cultivator and a scarifier. And it also does work no other existing tool can do—all in one motion.

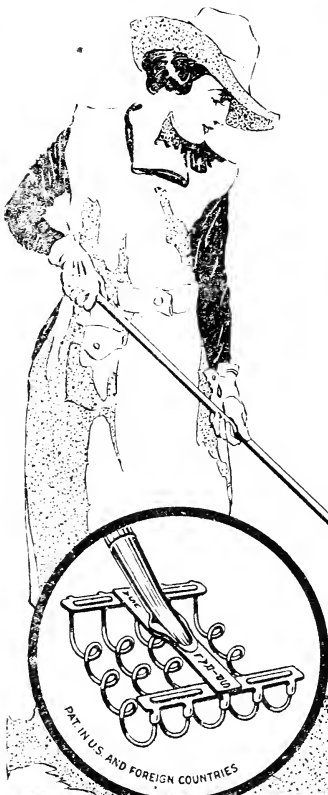
Saves two-thirds of our time and three-fourths of your effort. As easy to run as a carpet sweeper.

After the rough digging or ploughing, use this new tool whose spiral action breaks up, pulverizes and aerates the soil. At the same time it saws out all weeds, and checks the operation of fruit pests.

The SPIRAL makes a perfect seed bed and greatly increases the production of your garden at the least cost in time and effort.

Price \$3.00—Ten Days' Trial

If your dealer does not have the SPIRAL, send us your check or a money order for \$3.00 and one will be delivered to you, all charges prepaid. If after ten days' trial you are not satisfied, return it at our expense and your money will be refunded.



SPIRAL *The Handiest Garden Tool*
TRADE MARK *ever invented*

F. H. Ebeling, Syracuse, N. Y.

The seeds arrived in fine shape and just as I ordered. I cannot speak too highly of your seeds and hope to do business with you in the future.

Cassville, N. Y.

EARL T. ROBERTS.

F. H. Ebeling, Syracuse, N. Y.

Dear Sir—The Gould Monarch Sprayer, Fig. 1610, with 12-ft. bamboo extension, has given perfect satisfaction, giving a fine well distributed spray, even and close to a fog in fineness. Some of the trees are late in blossoming, and they will get another shower.

Yours very truly,

F. M. POWERS, Solvay, N. Y.

Mr. F. H. Ebeling.

Dear Sir—I am more than pleased with the Eureka Ensilage Corn which I had of you last year. I had corn from 16 to 17 feet high and had 75 tons from 2½ bushels. It was the tallest corn grown in this section.

Yours very truly,

FRED SEELMAN.

NAMES OF A FEW GARDENERS WHO HAVE DEALT WITH THIS HOUSE CONTINUOUSLY FOR UPWARD OF 25 YEARS

William Clark, Orchard Road, 49 years.

Charles Williams, Elmwood, N. Y., 30 years.

G. G. Hitchings, R. D. 5, Syracuse, 30 years.

William Moulton, Brewerton, N. Y., 40 years.

Charles B. Day, Skaneateles, N. Y., 37 years.

George Hunt, R. D. 1, Liverpool, 20 years.

Frank Matty, R. D. 1, Syracuse, 25 years.

Frank Scoville, Liverpool, N. Y., 35 years.

C. S. Sanford, Onondaga Hill, N. Y., 35 years.

George Skiff, Court St., Syracuse, N. Y., 35 years.

Charles Skiff, Syracuse, N. Y., 35 years.

John Kirsch, R. D. 1, Syracuse, N. Y., 25 years.

E. C. Nottingham, Syracuse, N. Y., 35 years.

William Lambert, Salina, 43 years.

Henry O'Neil, Onondaga Valley, 37 years.

CANADA FIELD PEA

Is one of the very best soiling crops of the North. The most satisfactory dairy results come from sowing it with oats, rye or barley. It makes good ensilage, and is an admirable food either green or dry for cattle, being highly nutritious and rich in milk-producing elements. It is quite hardy and may be sown early in the spring, and will be ready to cut in May or June. The seed should be sown at the rate of 1 to 1½ bushels per acre.

BUCKWHEAT

Market price changes. Write for quantity prices.

Buckwheat is mostly used for filling in fields remaining unplanted after the middle of June. It is well to bear in mind that on worn-out soils a plowed under buckwheat field is a great soil fertilizer and improver. Sow 1 bushel per acre.

Japanese A popular and standard sort. Very large grains of dark brown color. Early and heavy yielding. Choice re-cleaned seed. Bushel (48 lbs.) \$2.00

Silver Hull A very prolific and early sort. Grain a light gray in color. A great favorite with millers on account of the white flour it produces. Choice seed. Bushel (48 lbs.) \$2.00.

SPRING RYE

Used with profit as a catch crop where grain has winter killed. Quite commonly employed within recent years. Sow 1½ to 2 bushels to the acre.

ROSEN RYE

This Winter Rye has a wonderful history, being brought by a Russian student from Russia, who gave a handful to Prof. Spragg of the Michigan Agricultural College, who produced from this small beginning the most prolific and wonderful Rye ever known in the United States. Rosen Rye produces a strong, vigorous straw, stools to a remarkable degree. The grain is large, plump, and heavy. Less seed is required. One bushel to the acre will produce the best crops. Seed should not be sown until after the 10th of October. Rye will endure more cold and ill-treatment than any other grain. Rosen Rye produces 45 bushels to the acre. Price, \$2.50 per bushel.

MARQUIS SPRING WHEAT

A wonderful new variety which has become very popular and met with widespread interest. It is remarkably early and exceedingly productive. Per Bushel, \$3.00.

BARLEY

Austrian A productive and reliable variety. The straw is stiff and strong, holding up well and bearing long heads, which are well filled with plump grains. It ripens early and is good for both feeding and malting. Price \$2.25.

Beardless Barley Two row. This variety is free from beards, making it easier to thresh than other kinds and safer to feed to stock. It is a strong, vigorous grower, making short, heavy straw and bearing well-filled heads. Bushel, \$2.50.

Chevalier Very productive, popular, and a fine hardy 2 row type. Very plump and handsome in appearance and straw is stiff and strong. Bushel, \$2.50.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



Japanese Buckwheat—Natural Size

ALBERTA Cluster Oats

THE FAMOUS, HEAVY YIELDING, HARDY VARIETY FROM THE GREAT NORTHWEST

These oats were grown and shipped to us direct in car lots of about 2000 bushels, from that wonderful Alberta country of the Canadian Northwest. The soil is a deep, heavy, rich loam, free from foul weeds, and which produces the very best of all grain crops. These oats have captivated the modern grain-growing farmer in every part of the country because they have proved themselves a big success. It's well known that seed oats grown in the Alberta country are unequaled in hardiness, height, yield, vigor, in freedom from rust and from foul seeds. Canadian growers are extremely careful in seed selection and the Canadian government, through its rigorous seed laws, has greatly benefited our American farmers. It is safe to say that a more profitable variety of oats was never offered before in Central New York.

The two main handicaps in the growing of oats are foul weeds and the sowing of degenerated oats. Both problems are solved by our Alberta Cluster Oats. The virgin soils of the Canadian northwest are as yet free from the many foul weeds that affect our farmers, and these oats constitute a remedy for the farmers who have had trouble with their annual yield because they have continued to sow run-out and run-down sorts year after year. Alberta Cluster Oats compare with the majority of seed oats in the same way that a blooded Holstein compares with a common, scrub animal.

KERNELS MUCH FATTER—WEIGH 45 POUNDS TO BUSHEL

These oats yield from 75 to 100 bushels to the acre. They have big, strong, stiff straws that stand up well on any ground. Their spangled heads are 12 inches long and ripen early.

The season of 1920 showed splendid results from our Alberta Cluster Oats, which have produced two or three times more than the common oats.

Here's an opportunity for you to sell to your neighbors at a good price these remarkable oats for next season. We suggest that you order early.

Price on application. Special prices for large lots.

Seneca Falls, N. Y.

Mr. F. H. Ebeling, Syracuse, N. Y.

Dear Sir:—Will say in regard to the "Alberta Cluster Oats" that I am very much pleased with them as they yielded beyond my expectation. I had 26 acres and had 1560 bushels, and weighed 40 pounds per bushel. The weather was bad to gather them and was obliged to cut them with the mowing machine and rake with a horse rake, and we surely left 10 bushels per acre on the ground.

Very truly yours, W. D. HILL.

Geo. A. Courbat, Mallory, N. Y., sowed 30 bushels of our Wonderful Alberta Cluster Oats and grew one thousand bushels. This was a record-breaking oat crop for Oswego County, and which has never before been equaled.

GOLDEN RAIN WHITE SEED OATS—These new and wonderful Seed Oats are grown in Denmark whose climate produces the finest seed grains in the world. These are a new strain, having wonderful vitality, great weight, strong rootings—all of which insures the highest possible results in Oats. The question of all Oats standing up strong and stiff in the face of storms has always been a serious problem. These Oats, like our Alberta Cluster Oats, contain the highest qualities to be found in the Oat family. We have a small quantity only to offer this year.

Price per $\frac{1}{4}$ bu.....\$1.50

Price per $\frac{1}{2}$ bu..... 4.00

We strongly urge our farmers to try a small quantity.

TO PREVENT SMUT IN OATS. Formula—1 pt. of formalin to 20 gal. of water, wet 20 bu. (or in that proportion) of oats with this solution, mix thoroughly by shoveling, then pile in a mound, cover up well with blankets, etc., for 12 hours. This forms a gas that will destroy the Smut germ. After 12 hours spread out the Oats to dry. They will then be ready for sowing



Alberta Cluster Oats

EBELING'S HIGH GRADE SEED CORN

Our pedigree contract grown Seed Corn is the very best that skill, experience and money could produce.

Our corn will grow 90 to 95% this season, and we will guarantee satisfaction to all who use our Pedigree Seed Corn.

After nearly forty years experience in the handling and selection of Seed Corn for ensilage purposes, we have selected EARLY WONDER CORN as the very best one we have ever handled. This improved variety has demonstrated beyond a doubt that it is one of the best corns and as near perfection as it is possible to obtain an ensilage corn.

This corn can usually be depended upon to reach maturity in an ordinary season, making the heaviest possible growth of stalk, grain and foliage. We have been handling this corn for years and it has been grown exclusively in the mountainous sections of Pennsylvania, where climate and soil conditions are similar to the dairy sections of New York State.

Lancaster Sure Crop, Rising's Gold Dollar, Excelsior, Central Pennsylvania

Early Wonder Ensilage Corn is also known as Giant Ensilage, The Abbott, West Branch, Sweepstakes, West Branch Sweepstakes Corn (see picture on back cover), and other names. The corn that makes the farmer prosperous. Makes the ensilage in eighty days. Fully ripened and glazed in ninety days. This variety of field and ensilage corn is the product of most careful selection and each year only the finest ears selected for the good qualities desired from each of the parent varieties until it was brought to its present high state of growth, early maturity, large yield of forage and grain.

Early Wonder Ensilage Corn is the one big corn that makes the most bushels. It is the corn that fills the silo to the top. It's the unexcelled corn for ensilage and forage, growing an abundance of broad, leafy, succulent blades from the ground up. It's the corn to BUY and TRY.

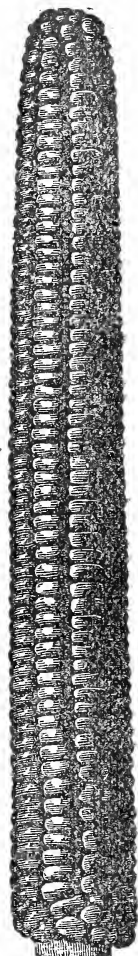
Angel of Midnight A most popular extra early 8-row yellow flint corn. Ears of medium size, a splendid yielder for one so early. If you want a corn that will stand June planting, select the "Angel of Midnight," the farmer's friend. Stalks of medium size.

Longfellow This is very well named, being the longest eared 8-rowed yellow flint corn known. It is strikingly handsome, medium late and should be planted on rich soils. It is the most prolific of all the flint sorts. Very popular among corn raisers. Stalks are of good size.

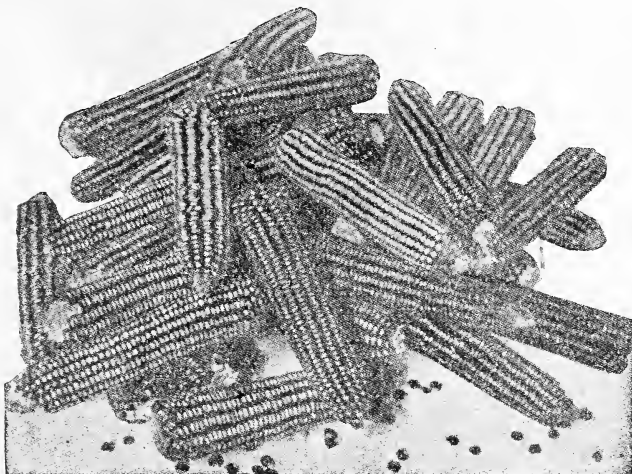
Canada Smut Nose This good old standard sort is one that has stood the test of time, and is as popular as ever. It is an 8-rowed medium late with a splash of a reddish blush over the tip of the ear.

Sanford White Flint A splendid large long-eared 8-rowed sort. Sometimes called "Canada White Flint," with big white kernels, small cob, easy to husk and a great basket filler. One of the biggest yielding sorts known. Ripens rather late, likes rich soils, early planting, old-fashioned cultivating and hoeing, with the result that you have a growth like a young forest, and a yield fit for a king. Very popular in Northern New York.

White Cap Yellow Dent This is an early yellow Dent, similar to Huron Dent, except that it has a white capped kernel which makes it look like a white corn. The grain with this exception is a beautiful yellow. A splendid planting corn. Its earliness permits it to ripen in New York State.



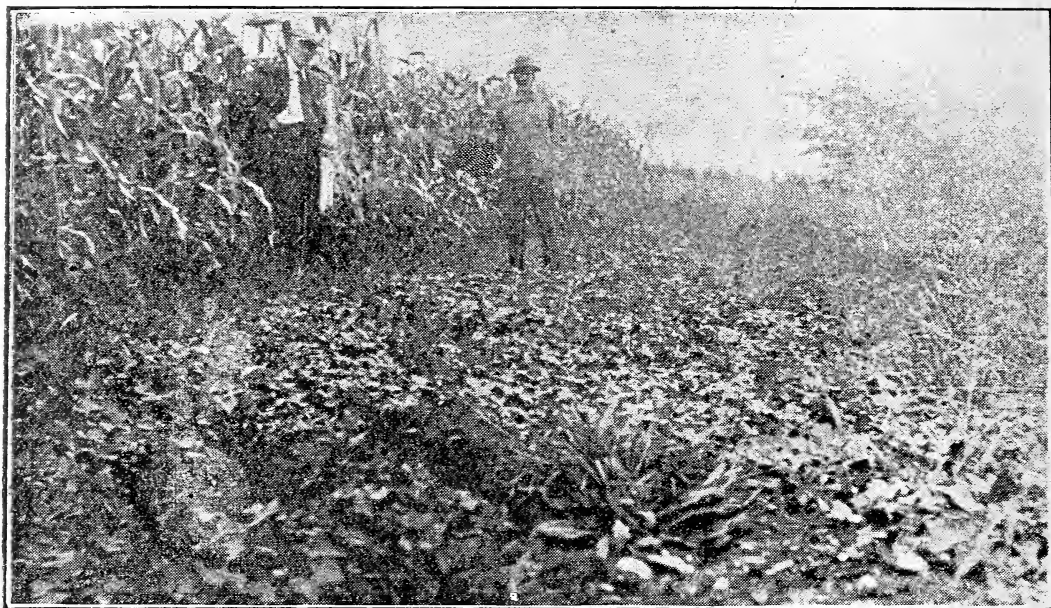
Longfellow
Yellow Flint
Corn



"Bloody Butcher."

Bloody Butcher It's the earliest Dent corn—as early as the Pride of the North or the Flint varieties. The stock like it and one bushel will go as far as 1½ bushels of either white or yellow varieties. Worms and birds do not bother Bloody Butcher very much and for that reason it is much sought after by the southern planter. Color deep cherry red with white cap, generally 14 rows on a small cob. Stalks medium height, fairly heavy.

Golden Glow Ensilage Corn is the earliest good sized variety of Dent Corn in existence. Something early and yet large enough for a profitable variety for general culture as a fodder or ensilage corn. It is noted for giving a big crop of good sized ears. Golden Glow is a pure yellow corn, kernels of good length—an early corn, stalks large and strong, with abundant foliage.



Sweet Potatoes and Indian Maize

E. D. Chapman, left, C. H. Jackson, right

Field of Sweet Potatoes and Indian Maize Corn on E. D. Chapman farm, Syracuse, N. Y., R. F. D. 4 grown by C. H. Jackson. This is a real novelty, as Sweet Potatoes are not generally grown in the North. However, Mr. Jackson has succeeded in growing Sweet Potatoes with excellent results. The picture above shows the field of Sweet Potatoes—also a field of Indian Maize. Our farmers should grow a small acreage of these two splendid crops, which would add materially to the interest of food and profit of the farm. Mr. Chapman and Mr. Jackson appear in the picture.

Hubam Sweet Clover for Bees

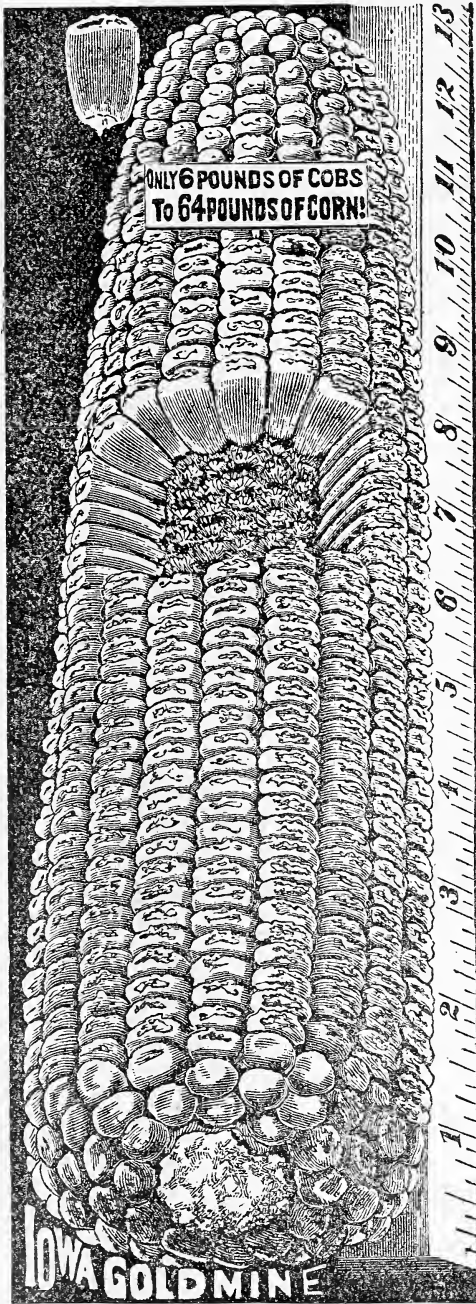
Hubam has been hailed by bee experts as a treasure for the bee-keeper. Sweet clover blossoms have long been recognized as one of the important sources of honey, being in many localities responsible for the big flow of the season. Hubam annual sweet clover is superior to the biennial type, producing quantities of nectar-bearing blossoms the first year from seeding. Based upon several years' experience, it has an important place in American agriculture. It is a wonderful bee plant; it has considerable value sown as a catch hay crop by itself and as a soil improver sown with oats and barley. It is an excellent drouth-resister.

QUANTITIES NEEDED FOR SEEDING

We recommend that for seed production Hubam seed be drilled in at the rate of at least 3 pounds to the acre, and where it is broadcasted, 10 to 15 pounds per acre should be used. Prices, pkt. 20c, oz. 25c, lb. \$1.50. Postpaid.

FOR DESTROYING DODDER IN ALFALFA FIELD

Use a spray consisting of four parts of water, one part of crude carbolic acid. Mix thoroughly in hot water. Spray this on the infected spots with an ordinary paris green sprayer. If necessary spray the second time. This will kill the dodder and save about 75 per cent. of the growing Alfalfa. I am indebted to J. C. Osborn, Port Byron, N. Y., for this valuable discovery.—F. H. E.



IOWA GOLD MINE ENSILAGE CORN.

The Deepest Grained, Purest Yellow Corn Ever Grown. Every Year This Corn Puts Thousands of Good Gold Dollars in the Pockets of Our Customers.

Every year you have read in our catalog the extraordinary things we have had to say about our Iowa Gold Mine Corn. Every year our confidence in it has increased, and our only wish is that we knew how to make a stronger plea for this, the king in the corn family.

We honestly believe it is the biggest market producer and money maker on the American continent.

This real wonderful variety of corn grows 14 feet high and it matures with your field varieties. Of all ensilage corn known to modern seedmen this has the largest kernel and smallest cob. You will find the grain value to be almost double of the Leaming or Pride of the North because of their immense cobs and small kernels. Iowa Gold Mine Ensilage Corn possesses every desirable feature of the Leaming and Pride of the North and in addition the great grain producing quality we have told you about.

We earnestly advise you, the reader, to sow this corn this year and we know that you will be as enthusiastic as we are about this world-winning corn. Price Bu. Shelled.

LUCE'S FAVORITE DENT FIELD CORN

Luce's Favorite, Minnesota King, Early Triumph, Poor Man's Dent. These four varieties are all one and the same thing.

This variety combines the best in the Western Yellow Dent and Eastern (White) Flint of which it is a hybrid. It combines all the good points in the family stock in that its stalks are tall, slender with many wide leaves. The ear has a long small cob filled with large broad dented kernels flattened out to the size of your finger nail. You can plant it as late as May 25th and it will ripen with ordinary seed Flint sorts.

You will find Lucie's Favorite to be a strong growing bright yellow dented corn, which breaks off very easy in husking. It's the heaviest yielder you ever saw, the stalks often have two or three ears. It's extra good for fodder as the leaves are very broad and long. Like all hybrid of this class there are from eight to twelve rows to the ear. We have seen a bushel shelled that weighed 34½ pounds and equal to 69 pounds of shelled corn to 2 bushels of ears. Price bushel.

PRIDE OF THE NORTH

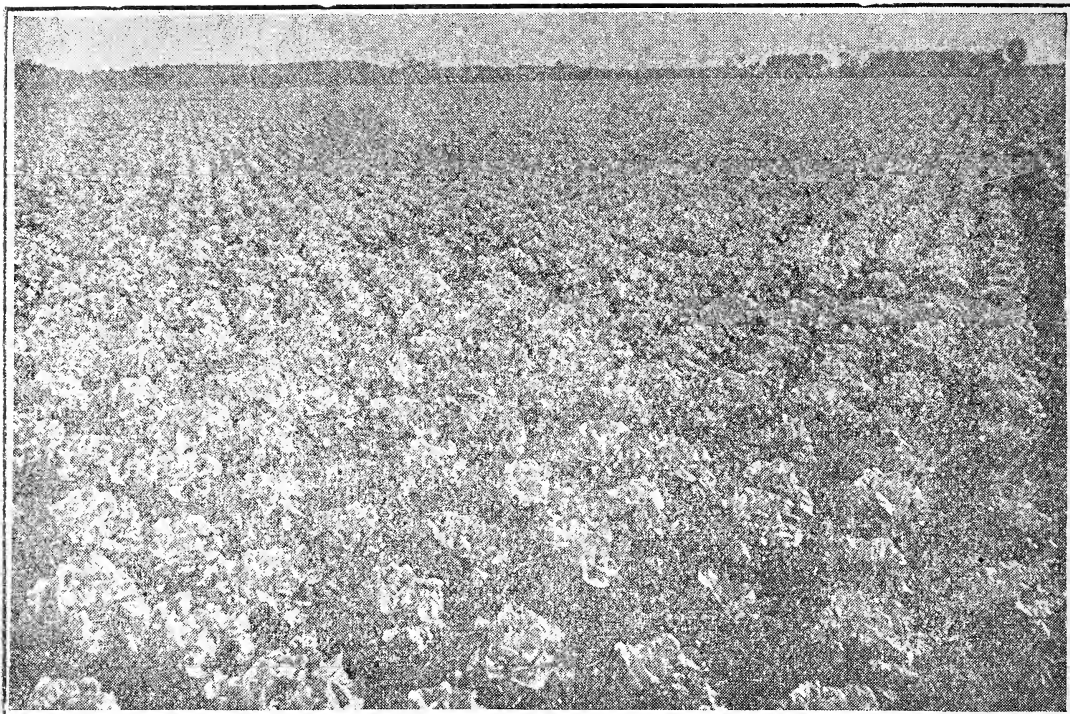
85-Day Yellow

We believe Pride of the North will mature farther north than any other Dent corn. Strong, hardy, vigorous grower, can be planted thickly and still make good-sized ears. For husking crop it ripens early, dries out quickly, and is an all around very satisfactory kind. Pride of the North has a bright red cob, ears medium size, with deep kernel. Many of the stalks have two good ears. Price per bushel,

IMPROVED LEAMING

This variety was originated by a Mr. Leaming of Ohio and at once became a very popular and well known variety. It is probably more largely used in the East than any other variety for ensilage or fodder purposes. Stalks grow to good size, nine to twelve feet, and produce ears nine to eleven inches long, containing from sixteen to twenty-one rows of dark golden yellow grains. It is a late variety and will not mature in the northern states, unless the season is very favorable, but it is early enough to make it very valuable for an ensilage corn. Price per bu.,

SPECIAL PRICES ON APPLICATION



Seven-Acre Field of Big Boston Lettuce Grown from Our Seed by A. Wooding,
Clay, R. F. D. No. 2

IDEAL SUGAR MANGEL

Our illustration shown below faithfully indicates the type of this Beet. It is a perfect Chunk or Boot-leg type of a beet, which makes harvesting easy, especially in hard soils, as it grows fully two-thirds above the ground. This new and original Mangel Seed is imported from Europe. In trial ground test of over thirty varieties, the IDEAL SUGAR MANGEL has proven superior in each of the following points:

- It contains the greatest amount of dry substance.
- It contains the greatest amount of sugar, which means feeding value.
- This Mangel grows high above ground.
- It's easiest of all to harvest these Mangels.
- Under favorable conditions they sometimes weigh thirty pounds.
- Size, quality and yield are three important factors that no farmer can afford to overlook.
- Price, \$1.50 per lb.



Field of Ideal Sugar Mangel Beets Grown by Charles B. Day, Skaneateles, N. Y.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

SEED POTATOES



The Russet

This marvelous Russet Potato is free from scab, blight and rot, being one of the very few potato fields that passed the rigid inspection by the New York State Food Supply Commission.

We offer Improved Russet Potatoes for seed, and urge our farmers and gardeners to order early before the stock is exhausted.

Price per bushel. Sacks at cost. Large lots at a suitable reduction.

Early Ohio The earliest of all and "The King of the Earlies." We offer the genuine "True to Name" Red River Valley Ohio Seed Potatoes, grown in the Red River Valley, the noted seed potato growing section of the U. S. Buy your seed stock now, which will be good for the years to come, as they will not "run out," but will hold true to type for many years.

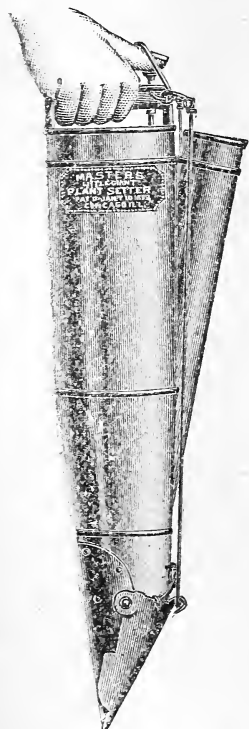
Early Seed Potatoes

Early Ohio.....Per bushel
Early Irish Cobblers.....Per bushel
Beauty of Hebron.....Per bushel

Late Seed Potatoes

Rural New Yorker.....Per bushel
Green Mountain.....Per bushel
RussetPer bushel

PRICES ON APPLICATION



MASTERS RAPID PLANT SETTER

A wonderful labor saving tool for transplanting Cabbage, Tobacco, Tomato, Sweet Potato, Cauliflower, Egg-Plant, Strawberry and all similar plants.

This Setter was originally designed to set cabbage plants, but has since been used with great success for many other plants.

Each plant is SET, WATERED and COVERED in one operation. The roots are firmly set by the absorption of the water almost as if they had grown there and every plant will grow even in the hottest, dryest weather. You can set your plants just when you are ready regardless of the weather.

A Labor Saver

To operate this Setter you walk along in an upright comfortable position. There is no stooping or lame backs. All of the hard labor of setting plants is done away with. It is easy pleasant work. You can set 8000 to 15000 plants per day and do perfect work. This is more than three times as fast as hand setting. You actually do more in one day than three men can do by hand so that this Setter will pay for itself every day it is used.

It is the ideal tool for gardeners and should be in the hands of every farmer who has plants to set out. It is now recommended by most of the leading Agricultural Colleges over all other methods of transplanting. Is strongly built and will last for years.

Price \$6.50 each.

SATISFACTION GUARANTEED OR YOUR MONEY BACK

Send for Special Circular

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

EXTRA RE-CLEANED GRASS AND CLOVER SEED

Nothing is more important to the farmer than that the grass seed he sows should be pure and clean. The seed should also be plump, heavy and well ripened, so as to insure a good stand. First-class, thoroughly re-cleaned seed, while considerably more costly in the first place, is really much cheaper in the end than the light, chaffy grades generally sold at much lower prices—even should the latter be free from weed seeds. Heavy, plump seed, germinating better, will produce a much greater number of strong plants.

SUDAN GRASS. Sudan Grass is strictly an annual, and dies each year like millet, and must be seeded again each spring. This makes it fit into any system of rotation and affords a change in crop, which is a good thing for the soil. Sudan Grass is tall, reaching a height of from seven to nine feet, with very small stems, no thicker than a lead pencil. The plant stools wonderfully, and produces an amazing number of stalks from a single root. The hay crop is of great importance; stock prefer it to any other forage, and thrive on it. Produces good crops in time of drouth, and enormous ones in wet seasons. Price 20c lb. Sow 10 to 15 lb. per acre.

PASTURE MIXTURE

Mixtures of seeds for the different pasture mixtures:

LOW LAND

	Lbs. per Acre
Kentucky Blue Grass.....	8
White Clover.....	4
Orchard Grass.....	9
Red Fescue.....	3
Redtop	8
	32 lbs.

HIGH LAND

Blue Grass.....	3
Red Clover.....	2
Orchard Grass.....	2
Redtop	13
Perennial Rye Grass.....	8
White Dutch Clover.....	2
	30 lbs.

FOR WET PASTURES

Redtop	14
Alsike	8
Perennial Rye Grass.....	12
White Clover.....	6
	40 lbs.

FOR LIGHT, SANDY SOILS

Red Fescue.....	20
Redtop	10
Kentucky Blue Grass.....	8
White Dutch Clover.....	2
	40 lbs.

BROMUS INERMIS. A hardy perennial, dark green soft grass, especially adapted to the dry and thinner soils. It forms a splendid grass for our Central New York farms, making fine pasture and good hay. It is one of the few really desirable grasses that can be depended upon for all around purposes. It is finer than Orchard Grass, sweet and nutritious, and sprouts out into fresh growth very naturally. Well adapted to high grounds, hills and sandy soil. It makes quick and strong growth, forming splendid pasturage and hay, weighs 14 pounds to the bushel. Sow three bushels to the acre. Price, \$4.00 per bushel.

It is a hardy perennial, dark green, grows on hills, dry and barren spots. It forms a splendid pasture and will grow where no other grass will thrive. Sow double the quantity of Blue Grass. Lb., 45c.

ORCHARD GRASS. (*Dactylis glomerata*). This is one of the most desirable pasture grasses for stock, and also for producing large crops of hay. It succeeds well in quite shady places, hence the name of Orchard Grass. Choicest re-cleaned seed, 14 lbs. to

the legal bushel—but our seed is heavier; 3 bushels to the acre. Per lb., 35 cts., postpaid; per bushel of 14 lbs., about \$4.50.

TIMOTHY. (*Phleum pratense*). Of the easiest cultivation and with us is usually sown in connection with winter grain in the fall, to which a seeding of clover is added early in the spring. 45 lbs. to the bushel; from 12 to 16 to the acre. per lb., 20 cts., postpaid; price per bushel, about \$5.00.

KENTUCKY BLUE GRASS. As is well known, this is the grass for which the State of Kentucky is famous and frequently in some sections of the country it is used in making lawns, although it is preeminently a pasture grass. When Kentucky Blue Grass is used for lawn purposes, the seed is generally sown at the rate of two and one-half to three and one-half bushels to the acre, and if White Dutch Clover is desired, seed should be added at the rate of one-half pound to one bushel of grass seed. Kentucky Blue Grass thrives best in well-drained or limestone soils. Legal weight, fourteen pounds to the bushel, and for pasturage it is customary to sow two and one-half bushels to the acre. Our re-cleaned seed weighs 20 pounds per bushel, and hence less than two bushels are required per acre. Per lb. 65 cts., postpaid; per bushel of about 20 lbs., \$12.00.

ENGLISH RYE GRASS. (*Lolium perenne*). This makes a quick growth very early in spring, and is adapted for cool, moist locations, recommended for fall seeding on Bermuda-grass lawns in the South, giving them a bright green appearance all winter. 24 lbs. to the bushel; 3 bushels to the acre. Per lb., 40c, postpaid; per bushel of 24 lbs.,

ITALIAN RYE. (*Lolium Italicum*). This is distinct from the preceding, being of much larger and stronger growth, with large broad glossy-green blades. It succeeds best in moist, fertile soils. About 20 lbs. to the bushel; 3 bushels to the acre. Per lb., 45c by mail, postpaid; per bushel,

RED TOP OR HERD GRASS. (*Agrostis vulgaris*). It is a most valuable addition to sow with timothy and clover to form a close sward for pasturage. About 32 lbs. to the bushel; 1 bushel to the acre; for lawns, 2 bushels to the acre. Per lb., 40c, postpaid; per bushel of 32 lbs., about \$11.00.

CRESTED DOGSTAIL. (*Cynosurus cristatus*). A valuable addition for lawn grasses which require close cutting and an ability to resist tramping, as in golf links, etc. 21 lbs. to the legal bushel; 1 to 2 bushels to the acre. Per lb., 75c, postpaid; per bushel of 35 lbs., \$21.00.

CREeping BENT. (*Agrostis stolonifera*). Especially adapted to moist lands and those which are occasionally overflowed. Its peculiar habit of branching underneath to the surface enables it to resist to the greatest extent tramping and pasturage. About 20 lbs. to the bushel; 2 bushels to the acre. Per lb. by mail, postpaid; per bushel of 20 lbs.

HARD FESCUE. (*Festuca durinacula*). An excellent pasturage or lawn grass, succeeding well in dry or shady locations. About 12 lbs. to the bushel; $2\frac{1}{2}$ bushels to the acre. Per lb. 55c postpaid; per bushel of 12 lbs.,

SHEEP'S FESCUE. (*Festuca ovina*). Slender blades growing in close, compact clumps and from six to ten inches in height. About 12 lbs. to the bushel; $2\frac{1}{2}$ bushels to the acre. Per lb., 60c postpaid; per bushel of 12 lbs.,

MEADOW FESCUE. (*Festuca pratensis*). A fine pasture grass. About 22 lbs. to the bushel; 2 bushels to the acre. Per lb., 40c, postpaid; per bushel of 22 lbs., about

TALL MEADOW OAT. (*Avena elatior*). A very valuable pasture grass. It is especially adapted for rather dry, light soils. About 10 lbs. to the bushel; 4 to 5 bushels to the acre. Per lb., 50c postpaid; per bushel of 10 lbs.,

WOOD MEADOW. (*Poa nemoralis*). An excellent pasture or lawn grass, desirable for planting under trees on the lawn. 14 lbs. to the bushel; 2 bushels to the acre. Per lb., \$1.25 by mail, postpaid; by express, per bushel.

ROUGH-STALKED MEADOW GRASS. (*Poa trivialis*). A valuable grass for moist soils or meadows, making excellent pasturage or very nutritious hay. About 14 lbs. to the bushel; 35 lbs. to the acre. Per lb., 55 cts., postpaid. By express, \$1.10 per lb.; per bushel of 14 lbs.,

MEADOW FOXTAIL. (*Alopecurus pratensis*). Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 lbs. to the bushel; 3 bushels to the acre. Per lb. 50c postpaid; per bushel of 7 lbs.,

JAPANESE MILLET. (*Billion Dollar Grass*). Japanese Millet is one of the most remarkable forage plants we have; remarkable for its marvelous, luxuriant growth, often growing six feet tall; remarkable for the immense amount of hay it produces from each acre, and remarkable for its feeding value. It is adapted to all sections; does especially well on low ground; makes more hay than German or any other kind of millet, and requires less seed per acre; produces a crop in a very short time; is relished as hay by stock of all kinds; or, if allowed to ripen, will yield about as many bushels per acre as oats. The seed can be used for feed, and is especially fine for poultry. Sow in May for best results, 15 to 20 pounds per acre. If desired for hay, cut just before it heads out; or it can be left to ripen and then threshed the same as timothy. Price \$2.50 per bushel.

HUNGARIAN MILLET. (*Panicum Germanicum*). Seed can be sown early in July to produce a good crop of hay. To make the best hay it should be cut before the seeds become hard. 48 lbs. to the bushel; 1 bushel to the acre. Per bushel, about \$3.00.

GOLDEN OR GERMAN MILLET. This is the favorite variety for planting in good land to produce a large crop of hay or forage during the summer months; of very strong growth. 50 lbs. to the bushel; 1 bushel to the acre. Tennessee grown. Per bushel, about \$3.00.

DWARF ESSEX RAPE. A forage plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further south; it is sown broadcast 10 lbs. to the acre, but it is better drilled, in which case 5 lbs. to the acre will suffice. In a few weeks from the

time of sowing, sheep, hogs or cattle can be turned upon it; all reports agree that they gain weight faster on this than any other fodder, and as it can be sown after other crops are off, the gain in fodder is secured at a nominal cost. Stockmen, dairymen and farmers have proved its value. Per lb. 12c.; 10 lbs. \$1.45; bushel of 50 lbs. \$4.00; 100 lbs. \$8.50.

SORGHUM, OR EARLY AMBER SUGAR CANE. This is the sorghum of the Northern States; makes the finest quality of syrup. The earliest and most productive variety. Height, 10 to 12 feet. For ensilage or fodder it possesses good qualities; stock of all kinds relish it. Sow 5 lbs. in drills, or $1\frac{1}{2}$ bushels broadcast to acre. Per lb., 6c; bu. (56 lbs.), \$2.50.

VETCHES OR TARES, WINTER (*Vicia losa*). Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, which serves as a support. It is perfectly hardy in all parts of the country, remaining green all winter and maturing fully four weeks earlier than Scarlet Clover; it can, therefore, be harvested or plowed under, and the ground used for the usual spring crop. Sow 25 lbs. with one bushel grain per acre. Price per bushel, \$14.00.

CLOVERS

ALFALFA, OR LUCERNE. (*Medicago sativa*). It strongly resembles clover in habit of growth and feeding value, but withstands drought much better. It is a perennial plant on well-drained soils, so that when once established, it will continue to produce large crops for twenty years when properly Villosa). Also called Sand Vetch, or Hairy cared for. It must be cut every time it comes into bloom, but will not succeed on low, wet soils. Sow from 20 to 30 lbs. per acre. Per lb., 40 cts., postpaid. By express or freight, 35c per lb.; per bushel, \$14.00.

ALSIKE OR HYBRID CLOVER. (*Trifolium hybridum*). The plant is perennial and very hardy, thriving equally well on wet or dry soils. The stems are more slender and much taller than those of the Red Medium Clover, and thus much better adapted for growing with Timothy to produce a high grade of mixed hay. Sow at rate of 10 to 20 lbs. to the acre. Per lb., 30 cts., postpaid. By express or freight, \$16.00.

RED MEDIUM OR MAMMOTH. This is the common Red Clover so largely grown. We shall be pleased to quote prices at any time.

WHITE DUTCH CLOVER. (*Trifolium repens*). This thrives in almost every soil and climate, succeeding equally well on heavy, moist land and thin, dry hillsides. It is of low-creeping growth and for green, velvety lawns. Per lb. 55c postpaid; by express 50c per lb.

SWEET CLOVER BOKHARA (*Mellilotus Alba*). This slightly resembles Alfalfa in growth, but is much taller, with leafier and stiffer stems. It frequently grows five to six feet in height and branches freely, with slender spires of small, fragrant, white flowers, which afford an excellent food for bees. Used also for inoculating Alfalfa soils. Per lb. 30c.

CRIMSON OR ITALIAN CLOVER. (*Trifolium incarnatum*). An annual variety providing large crops of green forage, or if cut while in bloom will make excellent hay. It should not be allowed to grow too old, or the seed-heads are liable to cause hair-balls to form in the animals' stomachs, to their great injury. It is for use as a green manure and cover crops that this plant is most highly esteemed. Seed should be sown early in August. Sow 15 lbs. to the acre. Per lb. 25c.

HUBAM WHITE SWEET CLOVER. Very fine for bees and a great honey maker. It is far superior to the ordinary White Sweet Clover, growing nearly double in height, growing rapidly, and will have a very important place in our American agriculture. Price pkt. 12c; oz. 18c; lb. \$1.50 delivered.

See page 8 for further particulars.

ASPARAGUS

Spargel (Gr.)

Sparagio (It.)

Culture—Sow early in spring in rows one foot apart; when one year old the roots may be taken up and transplanted in permanent beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with six inches of well rotted stable manure, then six inches of soil somewhat firmed, and place the roots on the same about 10 inches apart with the roots well spread out and cover so that the crown will be about four inches below the surface. Keep the surface well raked to keep down the weeds until the shoots appear.

Palmetto

is earlier, a better yielder, and is more even and regular in its growth than Conover's. Oz. 15c; ¼ lb. 35c; lb. \$1.00.

Columbian Mammoth White

It furnishes white shoots which stay white as long as fit for use without earthing up or any other artificial blanching. Fine for canning. Oz. 15c; ¼ lb. 25c; lb. \$1.00.

Roots of above varieties, \$1.00 a hundred.

BEANS—Dwarf Wax Varieties

Bohnen (Gr.)

Faginoli (It.)

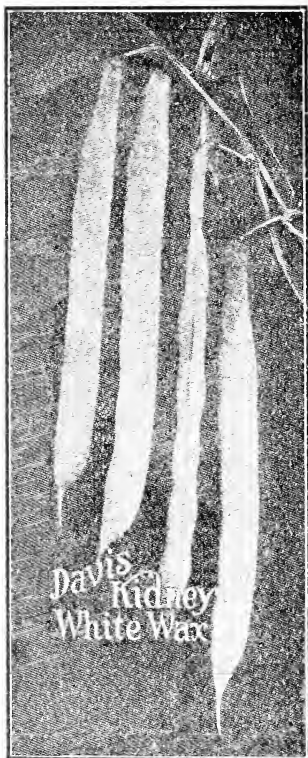
Culture—Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, and the rows 18 inches apart. For field culture make the rows three or three and one-half feet apart, and cover with two inches mellow soil. Do not hoe or cultivate while the plants are wet with dew or rain, as getting the leaves bespattered with earth causes rust, which injures the crop.

Golden Cluster

One of the earliest wax Pole Beans. Vines large, strong, vigorous: pods 6 to 8 inches long in clusters, thick and fleshy; bright golden yellow. Dry beans white and nearly round. Lb. 40c; 2 lbs. 75c.

Pencil Pod Wax

This comparatively new wax podded bean is particularly handsome, also medium early, hardy and very prolific. Leaves roughened. Pods long, five and one-half to six inches, straight, round, fleshy, and of a bright yellow color; tender, absolutely stringless and of excellent quality, and are produced through a long season. One of the best for home use and near markets. Seed long, round, medium sized; color solid black. Lb. 30c; 2 lb. 50c; bu. \$10.50.



Davis Kidney White Wax

Davis Wax

A very hardy and productive variety, desirable where a wax-podded, white seeded, mid-season sort is wanted. Vines very vigorous. Pods invariably long, six and one-half to seven inches, light yellow; seed kidney-shaped. Lb. 30c; 2 lb. 50c; bu. \$10.50.

Wardwell's Kidney Wax

This variety maturing a little later than the Golden Wax, yields a large crop of long, nearly straight, broad, creamy white, handsome pods. These are of large size, about six inches long, and are of good quality; kidney-shaped, white with dark markings about the eye. Lb. 30c; 2 lb. 50c; bu. \$10.50.

Keeney's Rustless Golden Wax

Vines strong and vigorous, with short runners. Pods produced in abundance; about five inches long, stringless, light yellow, wax-like and handsome. Seed similar to a light colored Golden Wax. Lb. 30c; 2 lb. 50c.

Currie's Rust-Proof Wax

Pods straight, rather flat, five inches in length and of a light golden yellow; seed black. Lb. 30c; 2 lb. 50c.

Improved Black Wax

This variety takes the place of the old black wax or butter bean and is much better in every respect. Vines medium sized, with small foliage, very vigorous, hardy and productive, maturing about midseason, well up from the ground, fleshy and of a light golden yellow, and remain a long time in condition for use as snaps. Lb. 30c; 2 lb. 50c; bu. \$12.00.

Round Pod Kidney Wax

This midseason variety is exceedingly handsome and very desirable for the home garden. Vines dwarf, spreading and productive. Pods long and round, wax-like, stringless and of the best quality. Uniformly perfect. Medium-sized, white, with a little dark marking about the eye. Lb. 30c; 2 lb. 50c; bu. \$10.50.

Hodson Wax

The vines of this variety are exceedingly vigorous, hardy and productive. The pods are handsome, clear creamy white, very long, six to seven inches, straight or slightly curved, flat but fleshy and of good quality, stringless if picked when quite young; matures its crop late. Seed long, cylindrical, uniform in shape; color dull purplish red splashed with pale buff. Lb. 30c; 2 lb. 50c; bu. \$10.50.

Grenell Rust-Proof Wax

Vines a little more upright and hardier than the Golden Wax. The handsome deep yellow pods are about five inches long, broader and flatter than Golden Wax but slightly inferior in quality. Seed similar to our Golden Wax but darker. Very popular with some gardeners. Lb. 30c; 2 lb. 50c; bu. \$10.50.

BEANS—Pole

Kentucky Wonder

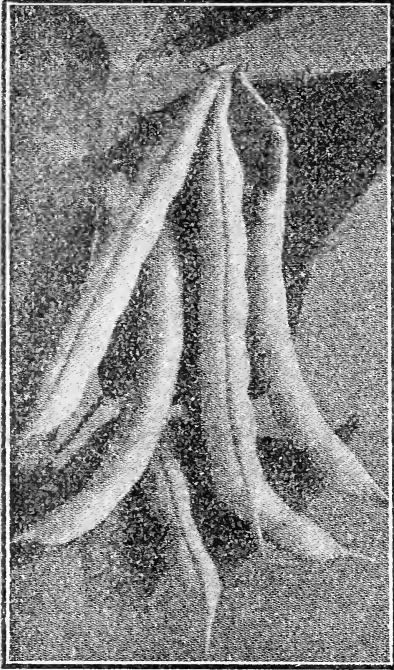
This remarkably vigorous growing, green podded pole bean has very long pods somewhat broad, very fleshy and quite stringless as snaps. The mature pods are often eight to nine inches in length. Its earliness and hardiness commend it as a pole bean. Large green pods are unexcelled in quality by any green podded bean of its class. Lb. 30c; 2 lb. 50c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

BEANS—Dwarf Green Podded Varieties

Bountiful For the market gardener this is one of the popular varieties. Pods are medium size, green and flat; an excellent snap bean. Dry beans are yellowish brown color. Lb. 30c; 2 lb. 50c.

Early Mohawk This sort is so much hardier than the others that it can be planted earlier and often will furnish beans fit for use before any other kind. Vines large, stout, with large, coarse, dark green leaves. Pods medium dark green, long, six to six and one-half inches, straight, coarse, flat, with long tapering points. Seed long, large, kidney-shaped, variegated with drab, purple and brown. Lb. 30c; 2 lb. 50c.



Giant Stringless Green Pod A very desirable green podded snap sort for the home garden and largely grown for the market. Vine is vigorous, spreading and productive. Pods are medium green, five to six inches long, crisp and tender. Lb. 30c; 2 lb. 50c.

Extra Early Round Pod Red Valentine For snaps there is nothing superior to this variety among the dwarf green podded sorts both for the home and market garden and many prefer it to the wax varieties. Vines medium to large, erect, with dark green leaves. Pods medium length, about four and one-half inches, curved, cylindrical, with crease in back, very fleshy, crisp and tender. Lb. 30c; 2 lb. 50c.

Refugee, or 1000 to 1 Of compact growth and very prolific. The pods are light green, very solid and tender. Lb. 30c; 2 lb. 50c.

Dwarf Horticultural Vines very productive, compact, upright, with large leaves. Pods five to five and one-half inches come fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. One of the best sorts for green shell beans for home and market. Lb. 30c; 2 lb. 50c.

BEANS

Pea, per quart.....	15c
Marrow, per quart.....	20c
Navy, per quart.....	23c
Imperial, per quart.....	25c
White Kidney, per quart.....	25c
Red Kidney, per quart.....	25c

SPECIAL PRICES ON BUSHEL LOTS**BEANS—Dwarf or Bush Lima**

Burpee's Stringless Green Pod A dwarf variety of the Dreer's Improved Lima. The beans grow close together in the pods, producing 3 to 4 and sometimes 5 in a pod, and are thick, sweet and succulent. Lb. 30c; 2 lb. 50c.

Dreer's Bush Lima True bush form of large white Lima, bush 15 to 20 inches high, 24 to 30 inches diameter, supported by its own thick stems. For productiveness and quality of beans it is not surpassed. Lb. 30c; 2 lb. 50c.

Burpee's Bush Lima An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods, which are produced in large clusters, are medium green, about four and three-fourths inches long, and each contain three to five large beans of exceptionally fine quality. Lb. 30c; 2 lb. 50c.

ENGLISH BROAD BEAN

Broad Windsor. An old-fashioned English shell bean. This bean is very hardy; it should be planted as early as the ground will permit, three or four inches deep in rows three feet apart, and plants four feet apart in row. Dry beans very large and yellowish green. Lb. 50c.

BEANS—Pole Lima

Carpinteriar or Ideal. One of the largest and most valuable Lima beans yet introduced. Vines unusually vigorous, very productive, bearing large clusters of broad pods each six to seven inches long, and containing four to six large beans of most excellent quality. While the variety matures a little later than Seibert's Early Lima, the pods are much larger and no Lima grown is more attractive. Lb. 30c; 2 lb. 50c.

King of the Garden Lima Vines very vigorous and productive. Pods five to six inches long, filled with four or five immense white beans of the finest quality. On account of its large pods it is a favorite with market gardeners. It will come into bearing sooner and will make larger pods if not more than two vines are left to grow on a pole. Lb. 30c; 2 lb. 50c.

Seibert's Early Lima In earliness, ease of shelling, size, beauty and quality of the green beans, this variety is far in advance of all other early Limas for either the garden or market. The vine is vigorous, very productive and continues so from the very first to the last of the season; so that although the pods rarely contain more than four beans the total yield is enormous. Pods about five inches long. The green shelled beans are very large, very tender and of the finest quality. Lb. 30c; 2 lb. 50c.

Jersey Extra Early Lima Large, early and productive. Lb. 30c; 2 lb. 50c.

Scarlet Runner Ornamental, bright red flowers; good snap bean. Lb. 40c; 2 lb. 75c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Ruebe (Gr.)

BEETS

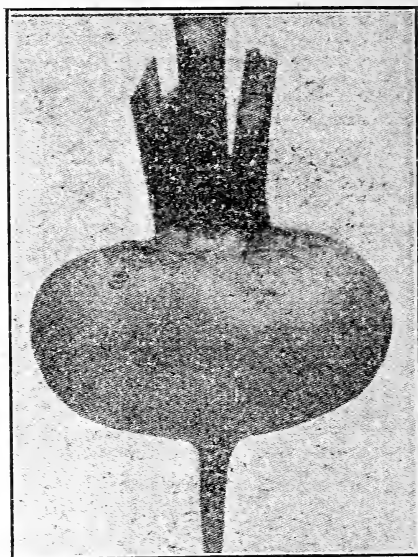
Barbabetola (It.)

The best results are obtained on a deep, rich, sandy loam. If wanted very early, sow such sorts as Crosby's Egyptian or Detroit Dark Red in hotbeds and transplant, cutting off the outer leaves. For general crop sow in freshly prepared soil as soon as the ground will permit, in rows eighteen inches apart covering about an inch deep and pressing the soil firmly over the seed. For winter use the turnip varieties may be sown in June so as to mature late in the season.

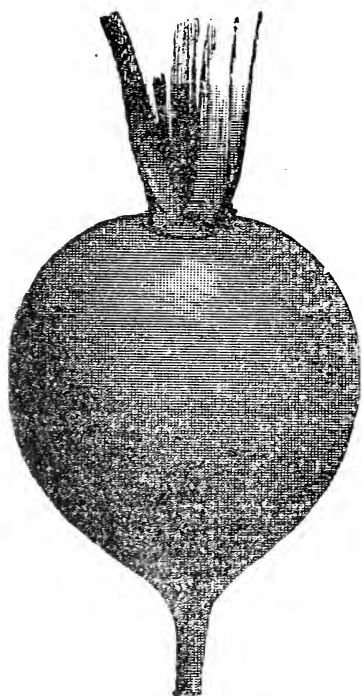
Extra Early Egyptian Blood Turnip The best variety for forcing and excellent for first early crop out of doors, being very early with small tops. Root very dark red, moderately thick, a little rounded on top, distinctly flat on the bottom, and about two inches in diameter when mature. Flesh dark purplish red, zoned lighter shade. Oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.

Crosby's Egyptian This is a beet famous both for shape, color and quality. Vaughan's Crosby beet is very early; has deep red color; is smooth and tender, has sweet flesh that is richly palatable. To retain earliness it should be grown with greatest care—it is worth the attention it demands. Oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.

Detroit Dark Red We believe this is the best beet for the market and home garden, and on account of its uniformly deep rich color the most desirable for canning. Tops small, upright in growth. Very smooth and of dark blood red color. Flesh is deep vermilion-red, zoned with a lighter shade of the same color. Careful comparisons with all the prominent varieties on the market in this country and in Europe prove that the Detroit Dark Red Beet is the most uniform in shape and size and the most attractive in color. It is unsurpassed in quality. Oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.



Extra Early Egyptian Blood Turnip



Detroit Dark Red

Early Eclipse An early beet especially desirable for the home garden. Tops small. Root bright deep red, smooth, round. Flesh bright red, zoned with pinkish white; very sweet, crisp and tender. Oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

Edmand's Early Blood Turnip Tops short and rather spreading; ribs and leaf stalks dark red. Root nearly round; exterior color dark red, interior color purplish red with little zoning; crisp, tender, sweet and an excellent keeper. Oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.00.

Crimson Globe A perfect beet in all respects; brilliant crimson in color, globe-shaped, with a very smooth skin, and an exceedingly small tap root, fine-grained, sweet in flavor, and tender at all times. The foliage is small, admitting of close planting. Not only a market gardener's sort, but one of the best for the kitchen garden, as it is extra early. Oz. 15c; lb. \$1.25.

Bastian's Early Blood Turnip An early, bright red, turnip shaped beet of very good quality. Root thick, medium sized tap. Flesh light purplish red; crisp and tender. Oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

Dewing's Blood Turnip Tops medium sized; leaf stem and veins dark red; leaf green. Root dark purplish red, turnip shaped with medium sized tap. Flesh carmine with purple tinge. A medium early sort, tender, sweet and a good keeper. Oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

Half-Long Blood A fine variety for either spring or winter use. The roots are smooth, flesh bright red and quality excellent. For winter use the seed should be sown early in July. Oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

Swiss Chard, or Sea Kale Beet Beisskohl (Gr.) Bieta (It.) A variety of beet, juicy, tender, light colored leaves and leaf stalks, which are much superior to those of other beets for use as greens. Later in the season the broad, flat, wax-like leaf stems are cooked or pickled. This variety is worthy of a place in every garden. Known also as Silver or Spinach Beet. Oz. 20c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.

MANGEL BEETS, Mangel Ruben**Mangel Wurzels**

For stock feeding. We should learn a lesson from our brother farmers in Canada and grow root crops much more extensively for stock feeding, which produce the greatest results for the labor and money invested.

Golden Tankard

A smooth, yellow fleshed Mangel. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields enormous bulk on good land and can be sown closely in rows. Oz. 10c; ¼ lb. 20c; lb. 60c.

Golden Giant, or Yellow Leviathan

Very fine large roots, growing one-half above the surface, which renders the harvesting easy. Skin a rich golden yellow, flesh pure white and sweet in flavor. It is a magnificent root easily harvested, producing enormous crops, and is a fine keeper. Oz. 10c; ¼ lb. 20c; lb. 60c.

Mammoth Long Red

This is a heavy cropper and a large yielder. The roots grow from one-half to two-thirds above the surface, and are frequently two or more feet in length by six inches usual diameter. Dark, richly colored foliage, skin dark red, flesh white with veined rings of rose pink. Oz. 10c; ¼ lb. 20c; lb. 60c.

Yellow Ovoid

The roots are of a true globe shape, from six to eight inches in diameter. Skin rich orange yellow, flesh white with lemon yellow rings. Sweet and solid. Oz. 10c; ¼ lb. 30c; lb. 60c.

Danish Sludstrup Mangel

This most wonderful Mangel is a long reddish yellow root but not so long as the Mammoth long red, it grows more above ground, is very easily harvested, and requiring but little exertion to pull same. They frequently weigh from 15 to 20 lbs. The Danish farmers prefer them smaller, 6 to 10 lbs. each, which is accomplished by allowing less space between rows. The smaller roots contain a higher percentage of dry matter, consequently the crop is more valuable. Oz. 10c; ¼ lb. 30c; lb. \$1.00.

Lane's Imperial

This beet will yield almost as much in bulk as the best Mangels, and contains a large percentage of sugar. Roots smooth, broad at the shoulder, gradually tapering to the base. Flesh snow-white. Oz. 10c; ¼ lb. 20c; lb. 60c.

Ideal Sugar Mangel Beet

The illustration faithfully shows the shape of this wonderful Mangel. It is a perfect chunk of a beet, being as large at the bottom as at the top. Stands two-thirds above ground. Is easily harvested even on hard soils. This new and original Mangel has been tested alongside thirty other Mangels and by strict laboratory tests on trial grounds and field demonstrations, has proven to be IDEAL and superior in quality.

Long Red Mangel

It contains the greatest amount of dry matter.
It contains the greatest amount of sugar of any Mangel.

It grows high above ground.

It is very easy to harvest.

The IDEAL MANGEL has under favorable conditions weighed as high as thirty pounds.

Skin light yellow, flesh light yellow.

We have imported the IDEAL MANGEL from the originator in Europe for many years and this particular type can only be secured from the grower in Europe. Oz. 15c; ¼ lb. 40c; lb. \$1.50.

NOTE THE FOLLOWING TESTIMONIAL

"Syracuse, N. Y.,

F. H. Ebeling:

Dear Sir—I have grown Mangel Beets for years on my Homer Farm, but in recent years THE IDEAL MANGEL only, which I consider the most satisfactory, because of its large percentage of sugar, the ease of harvesting and the feeding results obtained. Last season I grew about four acres; yield 115½ tons of harvested Mangels. This year I intend to increase my acreage.

Yours very truly,

CHARLES M. CROUSE."

BROCCOLI

The heads resemble somewhat a coarse cauliflower and the culture is the same in all essentials as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

Early Large White French

This is probably the most useful variety. Plants very hardy, vigorous and easily grown. Heads white, compact, hard and of good quality. Oz. 60c.

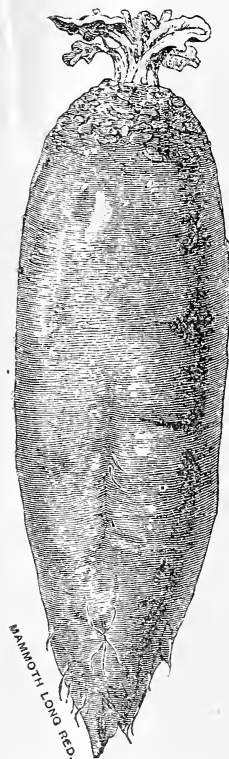
Rosenkohl (Gr.)

This vegetable is used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. Culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

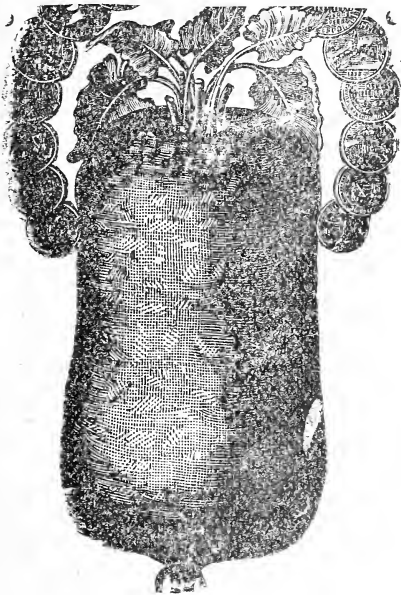
Improved Half Dwarf

Probably the most useful variety, plants growing one and one-half to three feet high, very hardy and giving compact, round sprouts of large size and good quality. Pkt. 10c; 1 oz. 35c; 2 oz. 60c; lb. \$3.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



MAMMOTH LONG RED



Ideal Sugar Mangel Beet

CABBAGE, Kopf-Kohl

It is difficult to give definite cultural directions for cabbage, since it is possible to have good cabbage at all seasons of the year in some part of the country, and seed can be planted almost any time of the year. There are three good seasons for sowing the seed, however—in September for late Winter and early Spring cabbages, in March for Summer and Fall cabbages, and in June and July for winter cabbages. The seed bed should be thinned early, or the plants become spindling, and do not head well. Transplanted to the field, they should be put twelve inches apart, in rows eighteen inches apart.

Early Jersey Wakefield

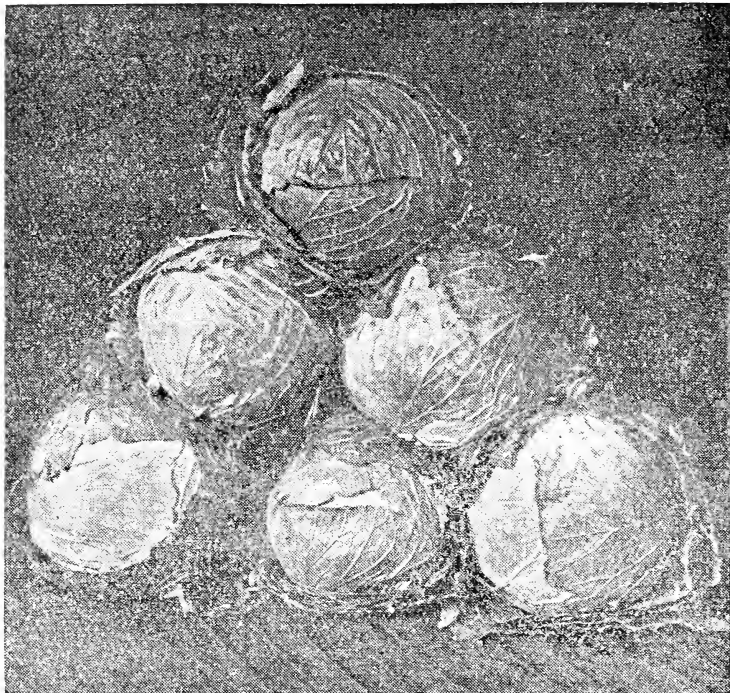
Oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

Copenhagen Market

The best early cabbage in cultivation. Forms fine solid heads of good size, pointed heads with few outer leaves.

This new Danish cabbage is the largest and earliest ball-shaped variety known. Heads very solid, of wonderful quality,

with small cores and weighing from 10 to 15 pounds. Oz. 40c; ¼ lb. \$1.25; lb. \$4.00.



On August 5, 1920 Frank L. Scoville, Buckley Road, Liverpool, N. Y., R. F. D., brought in six heads of Copenhagen Market Cabbage, grown from our seed, which weighs 137 lbs. The heaviest head weighed 29 lb. This is a most remarkable showing of this celebrated strain of Early Cabbage of which we have any knowledge, and believe this to be the "Banner" specimen known to the market gardeners. Mr. Scoville will be glad to verify the above.

Glory of Eukhuizen A very large early cabbage, heads nearly round, very solid, and which has proved to be one of the most profitable of the early market cabbages. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

All-Head Early

Our ALL-HEAD Early is of special value, having uniform in size and

Early Copenhagen Market, from Actual Photograph

fine outer leaves, head very large, very solid, flat but very deep and shape. Fine for Kraut. Oz. 35c; ¼ lb. 75c; lb. \$2.50.

Flat Dutch A fine, very large, late winter variety. Very popular on account of size, quality and yield. Oz. 30c; ¼ lb. \$1.25; lb. \$2.75.

Late Drumhead One of the old-fashioned big-growing sorts. So well known that a description is unnecessary. Oz. 35c; ¼ lb. \$1.25; lb. \$3.00.

Danish Ball-head Short stemmed. We consider this the best strain of Danish cabbage. The heads are large, almost perfectly round, very

hard, solid and of good deep green color. This strain of seed produces larger heads and consequently heavier yields than the old style Danish cabbage. A number of large fields in this locality have yielded as high as 22 tons per acre. There is no finer strain than this. Oz. 40c; ¼ lb. \$1.25; lb. \$3.50.

Danish Ball-head "Solid Emperor" strain. This is the old style Danish cabbage with tall stems and medium size heads which are deep green, very hard and keep better than any other kind. The yield is usually a few tons less per acre than the "Short Stemmed" strain, but on account of its splendid keeping qualities the "Solid Emperor" strain is sometimes preferred. Oz. 30c; ¼ lb. \$1.25; lb. \$3.50.

Succession "We consider it one of our most valuable contributions to horticulture. It would be classed as a second early variety, coming in a few days later than Early Summer, but double the size. Price, oz. 35c; lb. \$3.00.

Mammoth Rock Red While late in maturing this has the largest heading of all the deep red varieties. Oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

Red Drumhead or Large Red Dutch Heads of large size, slightly rounded. Fine quality. Oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

Globe Savoy The earliest and sweetest of Savoys or curled cabbages. The head is round, solid. Leaves small, thick, fleshy and of fine deep green color. Excellent quality. Oz. 35c; ¼ lb. \$1.25; lb. \$4.00.

American Victoria Savoy The best of the late Savoys for house use or for the market. The plant is robust with short stem. Is very much curled or wrinkled. A sure header of large size and the best of the Green Globe Drum-head Savoy. Oz. 50c; ¼ lb. \$1.75; lb. \$3.00.

Chinese or "Celery Cabbage"

Remedy for Cabbage Worms

One quart salt, mix with one tablespoon Cayenne Pepper. Sprinkle moderately into heart of cabbage. Apply once a week for several weeks. Will keep worms off and produce perfect heads. Formula given by Mr. John Huller, 507 Erikson, Eastwood, N. Y.

Petsai. Oz. 40c; ¼ lb. \$1.25; lb. \$4.50

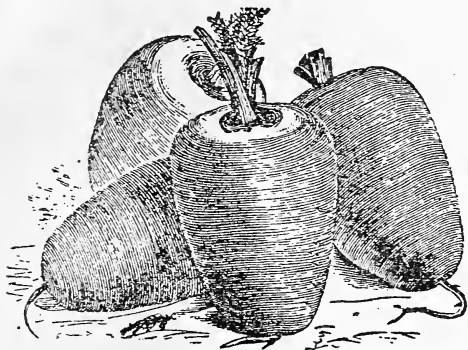
One, quart salt, mix with one tablespoon Cayenne Pepper. Sprinkle moderately into

CARROTS

Carotten (Gr.)

Carota (It.)

Carrots to grow to perfection require a deeply cultivated, rich and well pulverized soil. Sow early in the spring as soon as the soil is fit to work, in drills 15 to 18 inches apart, covering one inch deep, and press the soil firmly over the seed. If desired to cultivate with horse, make rows three feet apart.



GUERANDE OR OX HEART CARROT

Early French Forcing The earliest variety in cultivation and the best suited for forcing. Tops small, finely divided. The reddish-orange colored roots are nearly round. When fully matured they are about 2 inches in diameter, but should be used before they are full grown and while young and tender. Oz. 15c; lb. \$1.50.

Half Long Nantes Tops of medium size; roots cylindrical and smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for the market or home garden. Oz. 15c; lb. \$1.25.

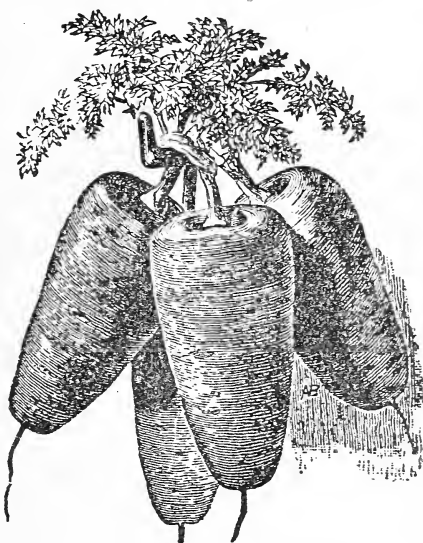
Early Short Horn Excellent for early planting out of doors. Tops small, coarsely divided; roots top-shaped, but tapering abruptly to a small tap; skin orange-red. Oz. 15c; lb. \$1.25.

Guerande, or Ox Heart Tops small for the size of the roots which are comparatively short but often reach a diameter of 5 inches, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young excellent for table use, and when mature equally good for stock. Oz. 15c; lb. \$1.00.

Chantenay Tops medium sized; necks small; roots tapering slightly but uniformly stump rooted and smooth; color deep orange-red; flesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any, is a heavy cropper and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort. Oz. 15c; lb. \$1.00.

James Intermediate A variety intermediate between the Danvers and Long Orange. It tapers to a point not so blunt as the Danvers and is more symmetrical and not so long as the Long Orange. Oz. 15c; lb. \$1.00.

Long Orange The most popular of the older sorts for farm use on mellow soil. An improvement obtained by years of careful selection of the best formed and deepest colored roots. Oz. 15c; lb. 90c.

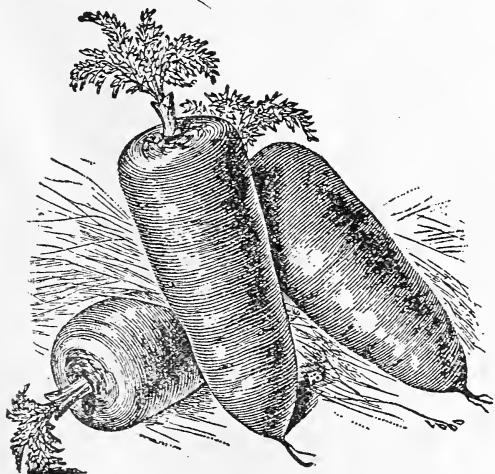


CHANTENAY CARROT

Danvers Grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size, coarsely divided. The smooth and handsome roots are deep orange of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender and of a deep orange color. Although the roots of this variety are short, they produce as large a bulk as the longer field sorts and are more easily harvested. Oz. 15c; lb. \$1.00.

White Belgian Grows one-third out of the ground. Root white, green above ground, with small top. Flesh rather coarse. The roots are of large size and the variety is extensively grown for stock feeding. Oz. 15c; lb. 90c.

Improved Short White We think this distinct variety is destined to take first rank as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Oz. 15c; lb. 90c.



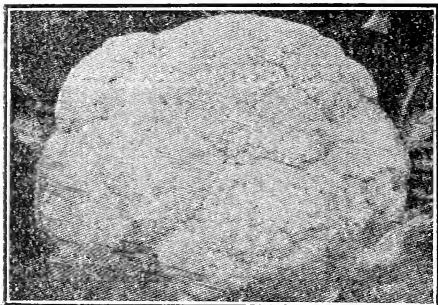
DANVERS CARROT

Blumenkohl (Gr.)

CAULIFLOWER

Cavolfiore (It.)

The Cauliflower delights in a rich soil and an abundance of water. Sow seed for an early summer crop in February or March in a hotbed. When plants are three or four inches high, transplant four inches apart in boxes or frames. In the middle of the spring or as soon as deemed prudent, the plants may be removed to open ground. Set plants from 2 to 2½ feet apart each way. For late Cauliflower sow the seed in a cool moist place about June 1st.



Early Snowball Cauliflower

Early Snowball The most popular and profitable of the Cauliflower family. Heads of uniform size, snowy white, very tender, and owing to its attractive appearance a most desirable market variety. This seed is imported from our Denmark growers under contract, being the best known source for cauliflower seed. Oz. \$2.50; ¼ lb. \$8.00.

Danish Giant or Dry-Weather

This strain of Snowball Cauliflower is especially valuable for high ground, as it is more vigorous than the Early Snowball, and stands dry weather better. The heads are a little larger than Snowball and mature a week or two later and have more leaves to protect them from the sun and frost. Oz. \$2.50.

Extra Early Paris An excellent early sort, and under favorable conditions will produce splendid results. Not as sure a header as the Snowball and Erfurt. Oz. \$1.50; ¼ lb. \$4.00.

CELERY

Sedano (It.)

Sellerie (Gr.)
CULTURE.—Celery seed is slow to germinate, and ample time must be given. Sow thinly; cover lightly. Keep constantly moist. Count on about 7,500 plants per ounce of seed, or ¼ pound per acre. When the seedling plants are 3 inches high they should be clipped at the top, to favor stocky growth, or else transplanted. Celery is mostly grown under flat culture, without trenches, in rows 4 feet apart, 6 inches apart in row. For home use celery is often grown in double rows, 10 inches apart, without trenching, and banked for winter storage just where it grows, without lifting.

Golden Self-Blanching This is the very best celery for early use. It is in condition as early in the fall as any, and we have yet to find an extra early sort equal in quality and appearance to our stock of GOLDEN YELLOW SELF-BLANCHING. Critical gardeners and consumers generally depend upon this variety to produce their best early celery. Plants of medium size, compact and stocky—with yellowish green foliage. As they mature the inner stems and leaves turn a beautiful golden yellow, so that blanching is effected at a small expense of time and labor. Oz. 85c; ¼ lb. \$2.25; lb. \$7.00.

Columbia An early maturing sort, unsurpassed in shape and quality. Plants of medium height, but very stocky and heavy. The stalks are thick—almost round. Similar to the Giant Pascal. With color of a rich yellow tint. Like the Golden Self-Blanching and which it resembles when trimmed and bunched ready for market. The foliage of a light shade of green tinged with yellow. Follows the Golden Self-Blanching. Quality exceptionally fine. Some connoisseurs consider it equal to the Golden Self-Blanching. Oz. 40c; ¼ lb. \$1.50; lb. \$5.00.

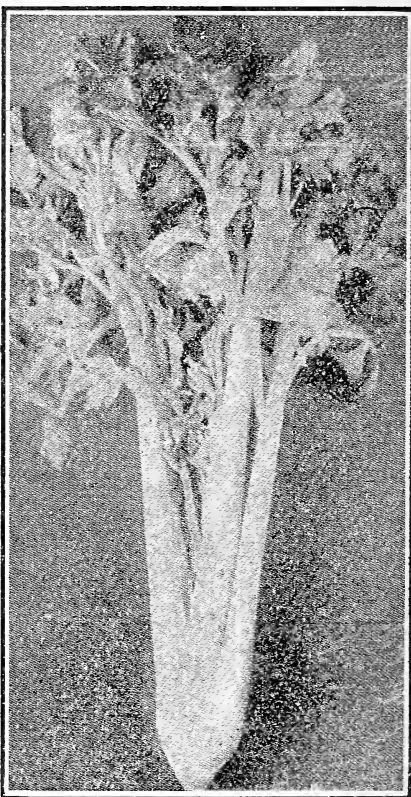
White Plume A handsome, very early sort. In great demand as a market celery, owing to its very attractive appearance. Requires a short time only for blanching. Leaves light green with tips almost white. As the plants mature the inner stems and leaves turn white, and require to be earthed up but a short time before they are in condition for use. While very attractive we do not consider it equal to the Golden Yellow Self-Blanching. Oz. 30c; ¼ lb. \$1.50; lb. \$4.00.

Easy Blanching A new variety of great merit. The habit is dwarf and compact, with light green foliage which has almost a yellowish hue. It is very easily blanched and might be termed a second-early variety, as it is ready for use to follow Golden Self-Blanching. Due to the solidity of the stalks it is a first-rate keeper, and may therefore be grown for winter and spring use. The flavor is first class, while the stalks are pure white, heavy and crisp. Oz. 35c; ¼ lb. \$1.25; lb. \$4.00.

Giant Pascal A splendid green leaved late variety, fine for fall and early winter use. It blanches to a beautiful yellowish white color. Very solid and crisp and of a fine nutty flavor. Stalk of medium height, very thick. The upper portions nearly round. Splendid for fall or winter use, especially in the South. Oz. 35c; ¼ lb. \$1.00; lb. \$3.00.

Winter Queen This is without question the most valuable variety of celery for winter and spring use, even excelling the celebrated PERFECTION HEARTWELL as a winter keeper. It is also much stouter, thicker and heavier with double the amount of heart of any known celery. Oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

Sutton's Superb Pink English grown seed stock. Very crisp, sweet and tender. Favorite with the English gardener. The finest of all celery for family use. ¼ oz. pkt. 50c.



Golden Yellow Self-Blanching

CELERIAC, or GERMAN CELERY

Large Smooth Prague The best of all with a large smooth root of splendid quality. Pkt. 5c; oz. 25c.
Apple Shaped Not as smooth as the Prague, but of equal quality and good form. Pkt. 10c; oz. 25c.
Turnip Rooted This is the most popular and best known variety. Per pkt. 10c; per oz. 25c.

CHICORY

Cichoria selvatika (It.)

Witloof

Known in restaurants as French Endive. Sown in May and June in drills. Transplant or thin to 6 inches; treat as endive, except that late in summer or fall it should be gradually banked up like celery. The stalks, when blanched, make a delicious salad. Oz. 30c; lb. \$3.00.

Improved

Large leaves, suitable for greens. Oz. 20c; lb. \$2.00.

Large Rooted Sort

Used for coffee. Oz. 20c; lb. \$2.00.

SWEET CORN

Mals (It.)

A rich, warm, alluvial soil is the best, but excellent sweet corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. If planted in rows, make the rows about three and one-half feet apart and place the seed fourteen to sixteen inches apart in the row. If planted in hills, make the hills three feet apart each way, six kernels to the hill. Hoe frequently, and when six inches high leave three or four plants in the hill.

Early Mayflower

The Early Mayflower Sweet Corn is the earliest White Corn on the market; has an ear 8, 10 and 12 rowed; is about 5 ft. high and its large ear ripening so very early makes it a most attractive and desirable variety for the critical market gardener. Very sweet and tender. 1 lb. 30c; 2 lb. 50c; 10 lb. \$2.50.

Mammoth White Cory

We consider this the best extra early corn. Ears very large for so early a variety. Stalks about 4 feet high, each generally bearing two large, finely shaped ears which become fit for use as early as those of any variety in cultivation. They are twelve-rowed, 6 to 7 inches long. Grain large, broad, very white and of remarkably good quality. 1 lb. 30c; 2 lb. 50c.

Crosby's Early

A most excellent early variety of fine quality. Ears five and one-half to six and one-half inches long, fourteen rowed or more, with short nearly square grains which are very white, sweet and tender. Plants about four and one-half feet high. 1 lb. 30c; 2 lb. 50c.

Golden Cream

(Or Improved Golden Bantam). A distinct extra early variety. A cross between Golden Bantam and Country Gentleman. The ear is similar in appearance to Country Gentleman, but the color is rich cream, cooking to a light golden yellow. The flavor is rich, nutlike and delicious. The stalks make a rapid growth, producing from 2 to 4 ears each. This new variety possesses genuine merit and we recommend that all lovers of good corn give it a trial. 1 lb. 30c; 2 lb. 50c; 10 lb. \$2.00.

Golden Bantam

A beautiful golden yellow, sweet and tender. In season it comes in mid-summer about the time of Improved Champion. A most important point in favor of Golden Bantam is that it holds its quality longer after being picked than any other variety we have tested (one of the greatest advances in sweet corn in this respect in years). As a market variety for wagon or fancy grocery trade, Golden Bantam has many points in its favor. It is of merchantable size, and in addition it possesses superlative quality. 1 lb. 30c; 2 lb. 50c; 10 lb. \$2.00.

Golden Evergreen Sweet Corn

New variety, extra fine, very sweet and tender, and keeps in eating condition longer than most sweet corns. Ten days to two weeks earlier than Stowell's Evergreen. A cross with Stowell's Evergreen and Sweet Orange, which is a second early, yellow, very tender and extra sweet variety. Golden Evergreen has a medium sized ear and stalk, making it a desirable sweet corn for market gardeners. Originated a few years ago by Charles Coolidge, a market gardener of Ontario county, N. Y. Took first premium at the N. Y. State Fair in 1916 and 1917, only times exhibited. 1 lb. 30c; 2 lb. 50c; 10 lb. \$2.00.

Howling Mob

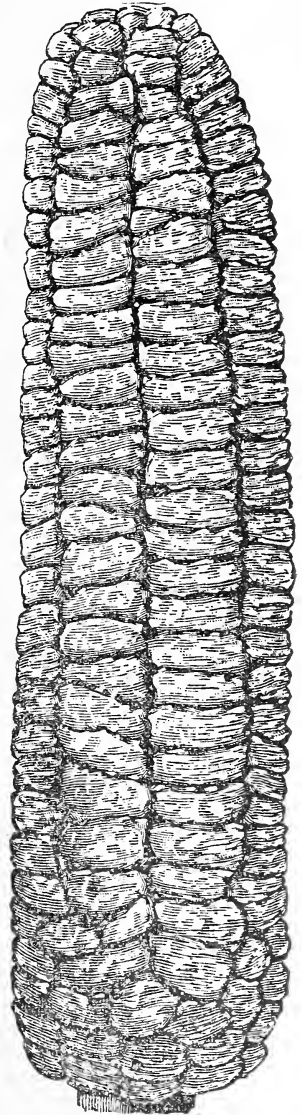
This corn originated in Ohio and it became so popular it was given the above name. The endeavor of the originator of this corn, was to get as large an ear as possible, early in the season and of sweet flavor. This corn is of strong and vigorous growth, from 4½ to 5 feet high and has abundant foliage and generally produces to ears to each stalk. Ears measure 7 to 9 inches in length with 12 or 14 rows. The corn is pearly white, usually covered with a heavy husk which extends well over the tip of the ears which affords a good protection from worms and birds. 1 lb. 25c; 2 lb. 45c; 10 lb. \$1.90.

Perry's Hybrid

This is a very popular Eastern variety. Stalks about 6 feet high, bearing two ears about 8 inches long, 12 or 14 rowed, which often have a red or pink cob; grain medium sized, cooking very white and tender. Matures a little later than early Minnesota. 1 lb. 25c; 2 lb. 45c; 10 lb. \$1.90.

Black Mexican

This corn, when in condition for the table, cooks a bluish black. It is surpassed by none in tenderness and is a most desirable second early sort; ears about 8 inches long, usually eight-rowed. 1 lb. 25c; 2 lb. 45c; 10 lb. \$1.90.



GOLDEN BANTAM CORN.

Early Evergreen We have tested many samples of Evergreen corn that were claimed to be earlier than Stowell's Evergreen and to be just as good, but we have never found any of them so valuable as the stock of this variety we offer. It has been proven both on our trial grounds and in the field to come into fit condition for use much earlier than Stowell's Evergreen and to remain in condition quite as long. Ears about seven inches long, with fourteen to twenty more or less irregular rows with very deep grain which is of the very best quality. Plants average from six and one-half to seven feet high and in ear resemble those of Stowell's Evergreen, but differ in earliness and we think are more uniform. A standard main crop variety for home garden and market; also well adapted for canning. 1 lb. 20c; 2 lb. 40c; 10 lb. \$1.75.

Stowell's Evergreen This standard main crop variety excels all other late sorts in sweetness and productiveness. It is more popular than any other for canning, for marketing and for the home garden. Great care has to be exercised in the selection of stock to grow seed from, as this variety has a tendency to deterioration and a shorter grain, which makes it less sugary and desirable. We have a large and growing trade among canners and market gardeners who must have a genuine Stowell's Evergreen, and our stock is known as the safest for all purposes. 1 lb. 20c; 2 lb. 40c; 10 lb. \$1.75.

Country Gentleman There is no sweet corn that compares with the Country Gentleman for sweetness. It is the variety par excellence where quality is desired. Market gardeners who make a specialty of growing for hotels and high class restaurant trade use this as a main crop in preference to any other. For home use it will be found superior and it is very productive. The fact that it is a favorite variety with canners proves its merit. 1 lb. 20c; 2 lb. 40c; 10 lb. \$1.75.

Early White Cob Cory An extra early variety with remarkably white grains, especially when cooked. Ears are six to seven inches long. Kernels are large, of good quality. 1 lb. 20c; 2 lb. 40c; 10 lb. \$1.75.

Early Red Cob Cory One of the best extra early varieties. Ears are about six inches long and eight-rowed and well filled. This variety does especially well in the coast counties. We have customers who will not plant any other sweet corn than Red Cob Cory. 1 lb. 20c; 2 lb. 40c; 10 lb. \$1.75.

CORN SALAD

Feldsalat (Gr.)
Large round leaved or small seeded. Oz. 15c; lb. \$1.50.

Valeriana (It.)

Curled

CHERVIL, Gartenkerbel

Treat like parsley. A valuable flavoring herb. Oz. 15c; lb. \$1.50.

Kresse (Gr.)

CRESS OR PEPPERGRASS, Kresse

Agretto (It.)

Cress

Fine for salads.

Garden curled. Oz. 15c; lb. 85c.

Water Cress, Dwarf

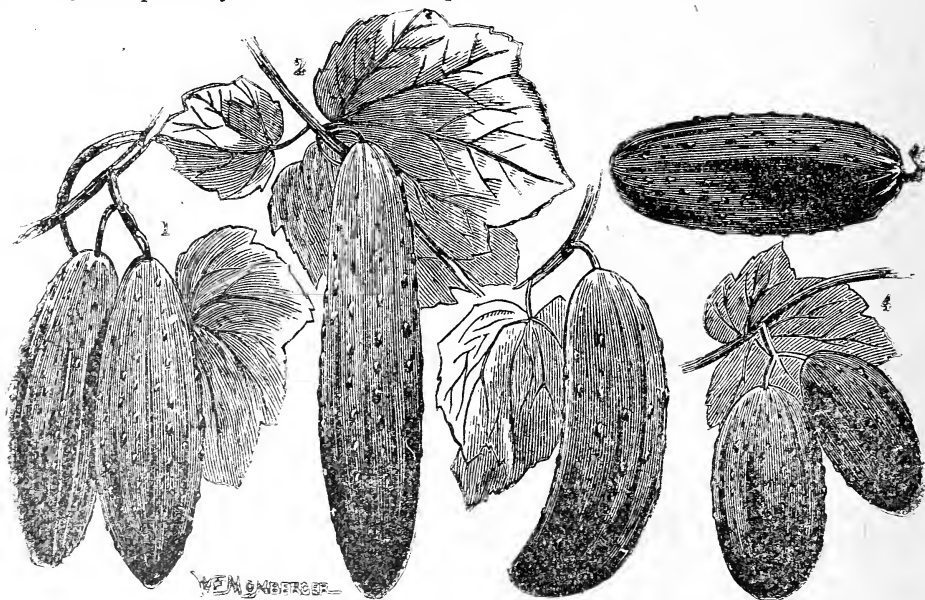
Fine curled, grows in shallow water. Oz. 50c; lb. \$5.00.

Gurken (Gr.)

CUCUMBERS

Cetriolo (It.)

CULTURE.—Flourish best in a rich, warm, sandy loam. Sow when danger of frost is over in hills four or five feet each way. As the young plant has many enemies sow thickly half an inch deep, and thin out finally to three or four plants to the hill. Use one ounce of seed to 75 hills, two to three pounds to the acre. Gather cucumbers by cutting, not tearing. Leave none to ripen if you want a full crop.



The Above Shows the True Type of Cucumbers

No. 1, Early Cluster; 2, Long Green; 3, Early Frame; 4, Early Russian; 5, White Spine

Early Russian

The earliest variety and probably the hardest. Fruit 3 to 4 inches long, 1½ to 2 inches in diameter, oval, pointed at both ends and covered with fine, small spines. Vine of vigorous growth and productive. Oz. 15c; ¼ lb. 40c; lb. \$1.25.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Early Cluster An early and very productive variety. Fruit small, thick at the end, dark green, but lighter at blossom end, borne in pairs or clusters and largely near the root. Used to some extent for pickles. Oz. 15c; ¼ lb. 40c; lb. \$1.25.

Early Frame, or Short Green Fruit short, straight, small at each end, bright green, lighter at blossom end, and, although small, attractive and of excellent quality. Used both for slicing and pickling. Vine vigorous and produces fruit of suitable size for slicing. Oz. 15c; ¼ lb. 40c; lb. \$1.50.

Improved White Spine, or Arlington Great bearer; standard for outdoors. Oz. 15c; ¼ lb. 40c; lb. \$1.50;

Peerless White Spine Larger than Improved White Spine. Excellent for forcing. Oz. 15c; ¼ lb. 40c; lb. \$1.50.

Long Green Fruit from 10 to 12 inches long; dark green, very firm and crisp. It is used largely for slicing, but on account of its firmness and crispness is popular with some for pickling and is especially desirable, when mature, for sweet pickles. Vine of strong, vigorous growth, and productive. Oz. 15c; ¼ lb. 60c; lb. \$1.50.

Davis Perfection A distinct variety of the hardy White Spine type. Fruit large, symmetrical, dark green and thickly set with fine spines. Though especially recommended for pickling, it is valuable for slicing, being of excellent quality. Vine vigorous, prolific, bears a long time. Oz. 15c; ¼ lb. 60c; lb. \$1.50.

Japanese Climbing Vigorous grower, with strong, grasping tendrils which enable it to climb trellis, netting or brush. Fruit of good size. Oz. 15c; ¼ lb. 60c; lb. \$1.75.

Boston Pickling A favorite for pickling. Medium size; smooth; light green; productive. Oz. 15c; ¼ lb. 40c; lb. \$1.50.

Chicago Pickling This variety is preferred above all others by some of the largest pickling establishments in Chicago and elsewhere. It is one of the best for the purpose, combining almost every good quality, and being alike satisfactory to grower and pickle maker. I have a choice strain of this seed. Oz. 15c; ¼ lb. 40c; lb. \$1.25.

Rollison's Telegraph A standard greenhouse variety. English greenhouse grown stock. Pkt. 50c.

Small Gherkin A curious, rough, little cucumber, used exclusively for pickling, for which purpose it is in high favor. Makes handsome pickle of first-class quality. Oz. 15c; ¼ lb. 60c; lb. \$1.50.

TO PROTECT MELONS, CUCUMBERS AND SQUASH FROM BUGS, ETC.

Sow a ring of buckwheat around the vines. (Do not cover.) Also place some moth balls on the ground around the melons to keep off the bugs, etc.

EGG-PLANT

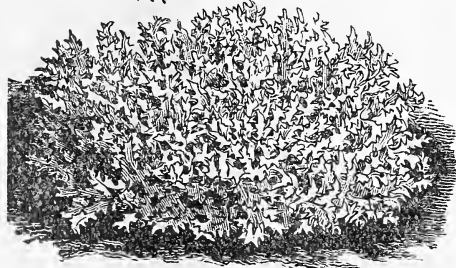
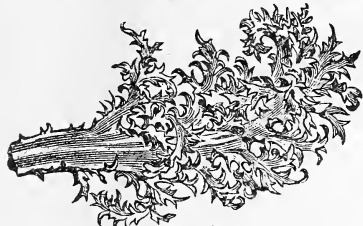
Eierpflanze (Gr.)

Petronciano (It.)

CULTURE.—Plant the seed in March in a hotbed, or, for family use, in flower pots in a warm window. Transplant in open ground after weather has become warm and settled, in rows two feet apart each way. They require rich soil and as favorable a location for warmth as the garden will afford. One ounce to one thousand plants.

Black Beauty Considered the earliest of the large fruited varieties. Color, a rich purple. Pkt. 10c; oz. 60c; 4 oz. \$2.00.

New York Improved Purple Surpassing all in size of fruit. Standard market sort. Oz. 60c; ¼ lb. \$2.00; lb. \$6.00.



Endive

Endivien (Gr.) **ENDIVE** Endivia (It.)

"Escarole"

Broad Leaf

CULTURE.—Sow as soon as the ground can be worked, in drills 15 inches apart, and thin plants to 6 to 8 inches in a row. To blanch the leaves, gather them carefully together when perfectly dry, and tie with matting or any soft fibrous material. The leaves are very highly esteemed for use as salads. One ounce will sow 150 feet of drill.

Fine Moss Curled Very ornamental. A little more curled than the London. Pkt. 10c; oz. 20c; ¼ lb. 40c.

London Green Curled A standard sort. Pkt. 20c; ¼ lb. 40c; lb. \$1.25.

Broad Leaved Batavian A large summer variety. Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.25.



Kohl-Rabi

GARLIC

Aglio (It.)

Knoblauch (Gr.)
Sets, Oz. 25c; lb. \$1.00.

HERBS KALE,

See page 34.

Cavolo rapa (It.)

Blaetterkohl (Gr.)
For early use, sow in May and transplant in June, and treat generally as for cabbage.

Dwarf Curled Scotch A standard variety. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.75.

KOHL-RABI

Cavolo rapa (It.)

Knollkohl (Gr.)
White, above ground. Pkt. 10c; oz. 35c; lb. \$3.00.
Purple, above ground. Pkt. 10c; oz. 35c; lb. \$3.00.

LEEK

Porro (It.)

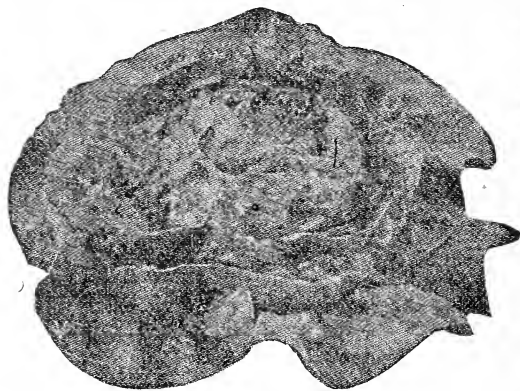
Porree (Ger.)
American Broad Flag The standard variety. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.00.

Kopfsalat (Gr.)

LETTUCE

Lohuga (It.)

CULTURE.—Lettuce thrives on nearly all soils, but because the growth should at all times be rapid to insure crispness and best flavor, the soil should be heavily enriched and well worked before planting. Lettuce being quite hardy, seed may generally be sown as soon as ground can be fitted, as, while prolonged or continued freezing will kill the plants, they are but little injured by an ordinary frost. Seed may also be sown in the hotbed in gentle heat, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground very soon after the time suggested for sowing seed outdoors.



Big Boston Lettuce

being fit for cutting. The plant is upright, forms a loose cluster of large thin bright green leaves, savoyed, finely crumpled at the edges. Very attractive and desirable for garnishing. Pkt. 5c; oz. 15c; lb. \$1.50.

Onondaga This remarkable variety was introduced by us many years ago. A splendid greenhouse sort, slightly fringed, forming a semi-head, a wonderful shipping and keeping variety, green under glass and of slightly reddish cast when grown in the open. Tender, crisp. Pkt. 5c; oz. 20c; lb. \$1.75.



Grand Rapids Lettuce

Denver Market Cabbage, butter head, medium size, medium green. One of the old standard varieties, and in our experience have found it identical with White Seed Tennisball. Pkt. 5c; oz. 15c; lb. \$1.50.

New York Head Curled or crisp as Iceberg, dark green heads somewhat conical. Pkt. 5c; oz. 15c; lb. \$1.50.

Old Lettuce Seed for Birds Oz. 5c, lb. 50c.

Big Boston The best large heading and suitable for forcing. It produces fine large yellow heads. Leaves are white, crisp, tender and sweet. Pkt. 5c, Oz. 15c; lb. \$1.50.

Black Seeded Simpson The most popular loose leaf variety. Crisp and tender. It grows a fine green leaf. The inner leaves form a loose head. Pkt. 5c; oz. 15c; lb. \$1.50.

Simpson Early Curled (White Seeded)—A very extensively used early loose leaved or clustering variety. Leaves light green, slightly frilled and much blistered. Crisp, sweet and tender. Especially adapted for thick sowing. Very fine for poultry feeding. Pkt. 5c; oz. 15c; lb. \$1.50.

Grand Rapids (Black Seed) — As a greenhouse forcing lettuce this stands at the head of the list. Quick growing, very hardy—not liable to rot. Will remain in good condition several days after

Hanson Head (Seed white.) A very desirable late summer lettuce. The plant is compact and forms a cabbage-like head which remains in condition longer than summer-head sorts. Outer leaves bright, yellowish green and broad. Somewhat crumpled and frilled edge and with a distinctive mid-rib. Inner leaves white, crisp and sweet. Pkt. 5c; oz. 15c; lb. \$1.50.

Paris White Cos The Cos Lettuce differs in shape from other sorts. Head being elongated and of conical form, about nine inches in height and about six inches in diameter. Outer coloring yellow green. To secure best results it should be tied up. Pkt. 5c; oz. 15c; lb. \$1.75.

Yellow Seeded Butter Cabbage Butter head, medium large, medium green, leaves crumpled and rather thick. Is similar or same as silver ball. Pkt. 5c, oz. 15c; lb. \$2.00.

Deacon Head Cabbage Butter head, medium size, medium green, leaves thick. Does not form a decided head but a well folded one, which is very oily and golden yellow inside. Pkt. 5c; oz. 15c; lb. \$1.50.

head, medium small size, medium green. One of the old standard varieties, and in our experience have found it identical with White Seed Tennisball. Pkt. 5c; oz. 15c; lb. \$1.50.

Curled or crisp as Iceberg, dark green heads somewhat conical. Pkt. 5c; oz. 15c; lb. \$1.50.

Oz. 5c, lb. 50c.

Melone (Gr.)

MUSKMELON

Popone (It.)

The Muskmelon succeeds best in warm, rich soil. While both plant-food and humus are necessary to all plants, all vines require an extra amount. Manure contains both, while rotted turf and commercial fertilizer combined supply both. If manure is used it should be well rotted, finely pulverized and evenly distributed throughout the soil. If plant-food is to be supplied by the use of commercial fertilizers, then land should be selected which, a short time before, was in grass, the turf well pulverized and the fertilizer, like the manure, evenly distributed. The muskmelon should not be planted until all danger of frost is past. Plant from 4 to 5 feet apart each way, allowing ten or more seeds to each hill, and cover with an inch of soil. If young plants are attacked by the striped beetle, dust with either air-slaked lime, soot or ashes, well diluted with fine road dust, taking care, however, that none of these is used too freely. Thin to three or four plants to the hill.

Paul Rose, or Petoskey This excellent melon is the result of a cross of the Osage and Netted Gem, and combines the sweetness of the former with the appearance of the Gem. Fruit oval, finely netted, about 5 inches in diameter. Flesh rich orange and even sweeter than the Osage. Oz. 15c; ¼ lb. 40c; lb. \$1.50.

Emerald Gem Fruit of medium size, skin very dark green, generally smooth; flesh thicker than of most varieties, in color rich salmon, and not surpassed in richness and flavor. More certain to produce uniformly good melons than is perhaps any other variety. Oz. 20c; ¼ lb. 50c; lb. \$1.75.

Rocky Ford (Netted Gem) More largely grown than any other of the small or basket melons and shipped in enormous quantities from Colorado and Arizona. Fruit oval, slightly ribbed, densely covered with fine netting; flesh green, thick, very sweet and of rich flavor. Oz. 15c; ¼ lb. 40c; lb. \$1.25.

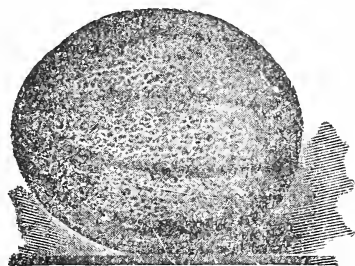
Improved Green Nutmeg Large, round, slightly flattened at both ends, ribbed and covered with coarse netting; flesh thick, of fine flavor. Vine vigorous and productive. Oz. 20c; ¼ lb. 40c; lb. \$1.25.

Benders Surprise A fine variety of exceptional merit. The fruits are round and deeply ribbed and finely netted. A salmon fleshed, thick meated, delicious in flavor. Oz. 25c; ¼ lb. \$1.00; lb. \$3.00.

Extra-Early Hackensack Fruit of good size, nearly round. Flesh green, a little coarse, but very juicy and sweet, and of good flavor. Vine very productive. Oz. 20c; ¼ lb. 40c; lb. \$1.25.

Vick's Irondequoit The flesh is a beautiful dark orange, and the closely netted skin is pale yellow when ripe, giving it a most attractive appearance when exposed for sale or when cut for the table. The fruit is unusually large, in fact it is one of the largest varieties grown. The melons are distinctly ribbed and beautifully netted. The flesh is solid and very thick, having but a small seed cavity. The flavor of a well ripened "Irondequoit" is delicious, sweet, rich, spicy and melting—the very highest quality in muskmellons. ½ oz. 25c; oz. 20c; ¼ lb. 75c; lb. \$2.50.

Honey Dew Melon "Sweetest Melon Ever Grown." During the fall of 1915 the first Honey Dew Melons were placed on the market. The product from slightly over two acres netted \$3600.00 on the Chicago market. These melons have sold at wholesale from 35 cents to \$1.50 on Eastern Markets. The rind is a dull white when ripe. Part of the melon shows a slight check in the rind like a tendency to net. This appears when the melon is ready to pick. The size runs from six to seven inches in diameter from top to bottom, and eight inches in length. The matured melons are practically all of the same shape and size. Flesh is a light green and is almost honey sweet. This melon is the best of all shippers and will keep several weeks, so there is practically no loss from spoiled melons in shipping. This is one of the best market melons grown. Vines vigorous, and produces six to ten fine melons to the hill. Oz. 20c; ¼ lb. 90c; lb. \$2.00.



Rocky Ford Muskmelon

WATERMELON,

Sweet Heart Introduced in 1894 and is very popular as a shipping melon particularly in the South. Vine vigorous and very productive, ripening its fruit evenly. Fruit of largest size, oval, very heavy, rind thin but firm; color very light green, very slightly veined with a little darker shade. Flesh bright red, firm but very tender and sweet. Fruit remains in good condition a long time after ripening. Seed black. Our stock will be found very uniform in shape, size and color. Oz. 10c; lb. \$1.00.

Cuban Queen This magnificent variety was originally brought from the West Indies, and seed first offered in 1881. The melons are of large size, oblong in form, slightly tapering at the stem end. Skin beautifully striped in dark and light green. Rind quite thin, but tough enough for shipping. Flesh bright red, remarkably firm, and of luscious quality. Oz. 10c, lb. \$1.00.

Peerless Sometimes sold as Ice Cream. One of the best early sorts for the home garden and for market gardeners who deliver direct to consumers. Vine moderately vigorous, hardy, productive. Fruit medium sized, oval, but somewhat uneven in shape, bright green, finely veined with a darker shade. Rind thin, flesh bright scarlet, solid, crisp and very sweet. Seed white. Oz. 10c; lb. \$1.00.

Cole's Early A very early melon; just right in size and shape. Oz. 10c, lb. 75c.

REMEDY FOR SQUASH, CUCUMBER AND MELON BUGS

Put three or four moth balls on the ground near each hill. (Do not cover moth balls.) This will drive away the bugs. Also, sow a little buckwheat near the hills and this will also keep away the bugs. This is a very cheap and easy way of protecting your vines from heavy annual losses.

MUSHROOM

The Mushroom is an edible fungus of which there are numerous varieties. We handle the ordinary commercial variety of a creamy white color with loose gills which underneath are of pinkish-red, changing to liver color. The mushroom produces "seed" or spores and there is developed a white, fibrous substance in broken threads, called spawn, which is developed and preserved in horse manure, pressed in the form of bricks. Mushrooms can be grown in cellars, in sheds, in hotbeds or sometimes in the open air, the great essential being a uniform degree of temperature and moisture. Our space is too limited here to give the necessary cultural directions, but these are published in book or pamphlet form.

Pure Culture Mushroom Spawn By a newly discovered process of selection and grafting, the spawn is scientifically propagated so that large, vigorous and finely flavored mushrooms are reproduced. The sort we offer is earlier, more productive and a marked improvement on wild spawn, either French or English. Brick (about 1¼ lbs.) 35c; 5 bricks \$1.50.

MUSTARD

White English Leaves comparatively small and smooth, deeply cut or divided and of medium dark green color. Plant upright, of rapid growth and soon when young, are mild and tender. Seed light yellow and larger than that of other varieties. Oz. 15c; lb. 75c.

Southern Giant Curled Leaves large, light green with tinge of yellow, much crimped and frilled at edges. Plant upright or slightly spreading in growth. Highly esteemed in the South for its vigorous growth, hardiness and good quality. Seed small, reddish brown to nearly black. Oz. 15c; lb. \$1.00.

NASTURTIUM

Tall Mixed Garden

Sometimes called Indian Cress. Grown not only for ornament but the beautiful orange colored flowers and foliage are used for garnishing and the young leaves or shoots are excellent for salads. The green seed pods are greatly esteemed by many for use in mixed pickles. Early in spring sow, preferably in rather light soil, in rows 3 feet apart and 2 inches apart in the row, covering one inch deep. When the young plants are about four inches high thin to six inches apart in the row. The vines can be supported if so desired by stakes, strings or brush. Oz. 10c; lb. \$1.00. For other varieties of Nasturtium see flower seed pages.

OKRA, OR GUMBO

The young seed pods are used in soups, stews, catsups, etc. Highly esteemed in the South. After danger of frost is past, the ground being warm and in good condition, plant in rows about two and one-half feet apart, covering with about an inch of fine soil firmly pressed down. When about three inches high, thin to about one foot apart in the row. Cultivate and keep free from weeds. The pods are in best condition for use when from one to three inches long.

White Velvet

Plant is about three and one-half feet high, early maturing and very productive. Pods white, long, smooth and are tender until nearly full sized. Oz. 15c; lb. 75c.

ONIONS

Zwiebel (Gr.)

Cipolio (It.)

How to Raise Onions for the Market

THE SOIL.—We prefer a soft, dark sandy loam, not too fine. This is much better if it has been cultivated with hoed crops, kept clean from weeds and well manured for two years previous, because if a sufficient quantity of manure to raise an ordinary soil to a proper degree of fertility is applied at once, it is likely to make the onions soft. The same result will follow if we sow on rank mucky ground or on that which is too wet, and it is impossible to raise either a large or profitable crop on stiff clay, very light sand or gravel.

PREPARATION.—Onions respond well to very liberal manuring. As much as forty loads of stock manure well composted or one ton of high grade commercial fertilizer per acre needed will vary with the soil, the seed used and the kind of onions desired. Thin seeding gives much larger onions than thick seeding. Four or five pounds per acre is the usual quantity needed to grow large onions. We prefer a drill that sows a very close row.

CULTIVATION.—As soon as the young plants can be seen in the rows give a shallow working either with rake or some other tool that pulverizes well the whole top soil. Work the crop again in a few days with a hoe or tool that cuts the ground over, this time as closely as is possible to the row without injury to the young plants; follow as quickly as possible with a thorough hand weeding.

Prizetaker

Grows to an immense size and for fall marketing is unexcelled. Although of such great size, it is very hardy and a fair winter keeper, as it ripens up hard and firm; very fine grained, and of mild, delicate flavor. The outside skin is rich yellow while the flesh is white. To get the best results from this onion the seed is sown in beds and transplanted. It will, however, make a good crop if sown in the ordinary way. Oz. 20c; lb. \$1.60.

Southport White Globe

This grows to a very large size and is a perfectly globe-shaped onion. Color is a clear pure white. This variety is used by the market gardeners for bunching. Oz. 20c; lb. \$2.50.

Early Flat Yellow Danvers

A good variety, but not as round or quite as early as the Yellow Globe Danvers. Very productive. Oz. 20c; lb. \$2.00.

Southport Yellow Globe

A large perfectly shaped Globe onion and an excellent onion for keeping throughout the winter. A very heavy cropper, handsome in appearance and good dark yellow color. Oz. 15c; lb. \$1.60.

Yellow Globe Danvers

This fine onion is of large size. An early and abundant cropper. Bulbs very thick, flat or slightly convex bottoms, full oval top with small neck and rich brownish yellow skin. Oz. 20c; lb. \$1.60.

Michigan Yellow Globe

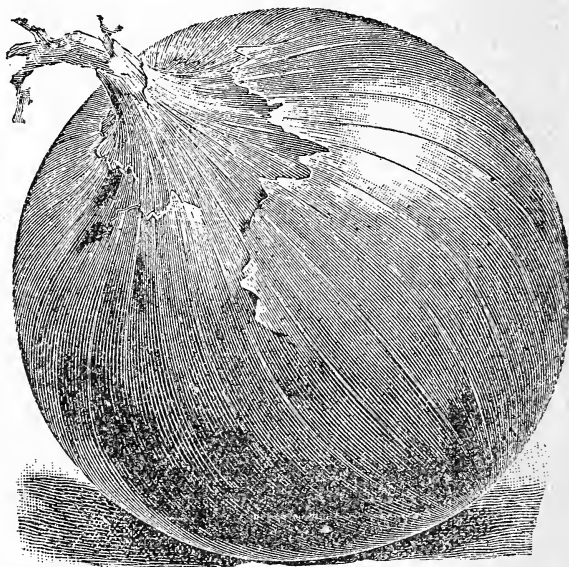
The bulbs are large and uniformly spherical with very small necks and the largest diameter below the center of the bulbs, of a rich orange color. Oz. 15c; lb. \$1.60.

Ohio Yellow Globe

An early Globe onion, small neck and very uniform in size and color. Very popular in the marsh onion sections of Ohio and Indiana. We have an excellent stock of this standard variety. Oz. 20c; lb. \$1.60.

Southport Red Globe

This is a fine keeper. Large size and considered one of the best red onions. Flesh is fine grained, very mild and tender. Oz. 20c; lb. \$1.85.



Yellow Globe Danvers Onion

White Portugal American Silver Skin. This is the best sort to sow—for onion sets or for pickling. When sown thickly for either it makes a small, round, hard bulb. Oz. 25c; lb. \$2.25.

Ailsa Craig A handsome globular variety, growing to an enormous size, with pale yellow skin, flesh white, a good keeper and valuable for exhibition purposes. Oz. 25c; ¼ lb. 75c.

Large Red Wethersfield We have a very fine and select strain of this sort. Color is deep purplish red, flesh white, moderately grained and very firm. Yields an enormous amount per acre, and is one of the best winter keeping onions. Oz. 20c; lb. \$1.75.

Extra Early Flat Red This variety matures from ten days to two weeks earlier than the Red Wethersfield. The color is a deep rich red, fine grain and close. Oz. 15c; lb. \$1.50.

Petersille (Gr.)

PARSLEY

Prezzemolo (It.)



Double Curled Parsley

CULTURE.—Sow seeds in shallow drills in the early Spring for border, or in rows 12 to 18 inches apart, care being taken that the drills be not more than one-half inch in depth, and that the seed be well pressed down after sowing, as the seed germinates very slowly, three to five weeks elapsing sometimes before it makes its appearance. Use one ounce to 150 feet of drill, three pounds to an acre. Cultivate frequently.

Plain Parsley The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves, as well as its hardness. The curled sorts are very extensively used for garnishing. Pkt. 5c, Oz. 15c, lb. \$1.00.

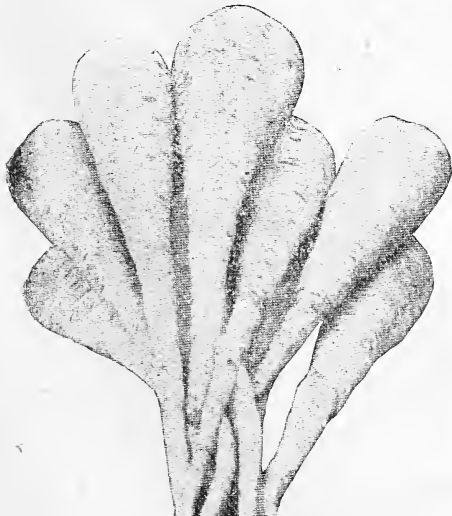
Champion Moss Curled This is a vigorous, compact growing variety, excellent for garnishing and flavoring. A handsome decorative plant. Leaves very finely cut and so closely crisped or curled as to resemble bunches of moss. Fine deep green color and very attractive foliage. Pkt. 5c, Oz. 15c, lb. \$1.25.

Pastinake (Gr.)

PARSNIPS

Pastinaca (It.)

CULTURE.—Sow in early spring, in rows two to three feet apart, thin to four or six inches in the row. One ounce of seed will sow 200 feet of drill, four to five pounds per acre in drills two and one-half feet apart. Cover the seed one-half inch. Use rotted manure and fertilizer. Parsnips may be left in the ground all winter.



Marrow Parsnip This is a fine new Parsnip of English origin which we confidently offer to our trade. It is very fine grained and exceedingly sweet, while the peculiar parsnip flavor is fully reserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for private or market garden use. Oz. 20c.

Kelway's Don A half long variety of our introduction, selected for handsome form, size, whiteness of skin and flesh, and firmness and solidity of texture. Recommended for exhibition (see illustration). Oz. 25c; lb. \$1.25.

Gurnsey (Improved Half-Long)

Greatly improved strain. The roots do not grow as long as the Hollow Crown, but are of greater diameter and very easily gathered. A very heavy cropper. Roots very smooth. Flesh fine grained and of excellent quality. Oz. 15c; lb. \$1.00.

Improved Hollow Crown This really is the greatest old-time favorite among the parsnips and has a host of friends which it will never lose. It is very smooth, white with a very thick shoulder and tapering down to a graceful point. One of the best known, none better. Oz. 15c; lb. \$1.00.

PEAS

Erbsen (Gr.)

Piselli (It.)

For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas; such soil is often the cause of early sorts maturing unevenly. Sow as early as possible a few of some early variety on warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity. The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches three to six inches deep and covered with only one or two inches of soil.

Earliest of All, or Alaska

By careful selection and growing we have developed a stock of this smooth blue pea of unequalled evenness in growth of vine and early maturity of pods which are filled with medium sized, bright green peas of good flavor. Vines of medium height, about two and one-half to three feet and of distinctive light color. Pods of good size, about two and one-half to two and three-fourths inches long. Seed small, smooth, and bluish green in color. Matures all the crop at once and is an invaluable variety for market gardeners and canners. Pkt. 10c; lb. 25c; 2 lb. 45c; 10 lb. \$1.75.

Thomas Laxton

A very early wrinkled variety of great merit. Vine vigorous, of medium height, about three feet, similar to that of Gradus, but darker in color, hardier and more productive. Pods large, often four inches long, with square ends, similar to but larger, longer and darker than those of Champion of England and as uniformly well filled. The green peas are very large, of fine deep color and unsurpassed in quality. We are certain that the earliness and productiveness of this pea need only to be known to make it one of the most popular sorts for the market and home garden, as in appearance and quality it is one of the very best varieties yet produced. Pkt. 10c; lb. 35c; 2 lb. 65c; 10 lb. \$2.65.

Gradus

A very early, wrinkled pea. Vine similar in appearance to Telephone, but of medium height, only about three to three and one-half feet. The pods are very large, about four and one-fourth inches long, very nearly as large as those of Telephone, uniformly well shaped, pointed, handsome and more attractive than those of the first earlies. Peas very large, of splendid quality and beautiful light green color which they retain after cooking. Practically the same as Prosperity. Pkt. 10c; lb. 35c; 2 lb. 65c; 10 lb. \$2.65.

American Wonder

Vigorous, productive vines, with a luxuriant foliage, and producing the leaves on one side of the stock, growing from 9 to 12 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light colored, straight, round, about two and one-half inches long and blunt at the end. Fit for picking fifty-five days from planting. Seed is wrinkled, green, medium in size and square at the end. Pkt. 10c; lb. 30c; 2 lb. 50c; 10 lb. \$2.25.

Nott's Excelsior

Resembling Gems in habit, but more dwarf and uniform in growth, height 12 to 17 inches, with rather light foliage. Pods are light in color, round, about two and one-half inches long, blunt at the ends. Fit for picking fifty-six days from planting. Seed green, wrinkled, medium in size and square at the ends. Pkt. 10c; lb. 30c; 2 lb. 50c; 10 lb. \$2.25.

Little Marvel

We are sure that as soon as American gardeners, whether for pleasure or profit, become acquainted with Little Marvel they will drop both Little Gem and Nott's Excelsior, popular as these two varieties are today. The vines, of dwarf even growth, average fifteen inches in height and are heavily set with fine pods, frequently borne in pairs. The pods average two and one-half inches in length, are square at the bottom and well filled with six to seven quite large, deep green peas. The peas are ready for the table fully as early as American Wonder or Nott's Excelsior, while the pods are larger and the vines produce a much heavier crop. All who desire a fine early crop of the choicest quality of wrinkled peas will be delighted with Little Marvel. Pkt. 10c; lb. 35c; 2 lb. 65c; 10 lb. \$2.50.

Premium Gem

Desirable early green wrinkled dwarf variety similar to but better than McLean's Little Gem. The vine is very productive and grows to a height of from fifteen to eighteen inches. The pods are of medium size and crowded with six to eight very large peas of fine quality. The seed is green, large, wrinkled, often flattened. Pkt. 10c; lb. 30c; 2 lb. 50c; 10 lb. \$2.25.

Potlatch

Strong, vigorous vines of even growth, 20 to 24 inches in height, with luxuriant dark foliage, bearing pods medium green in color three and one-half to four inches in length. Broad and pointed at the ends. No variety known will produce more pods, and no pods could possibly shell out better. The Potlatch is a variety from which anyone may expect great things. Fit for table use 61 days from planting. Seed green, wrinkled, large in size. We consider ourselves very fortunate in having secured and introduced this pea. Pkt. 10c; lb. 35c; 2 lb. 65c; 10 lb. \$2.65.

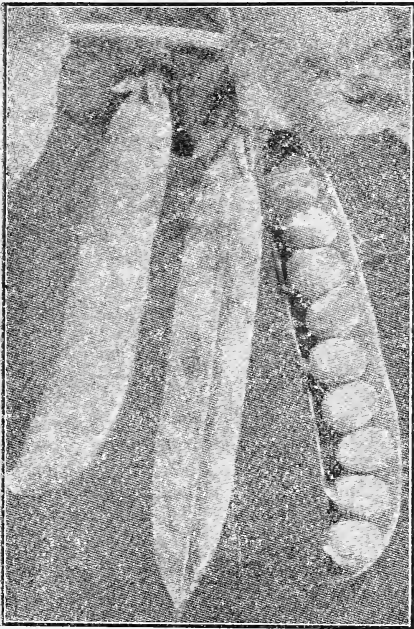
McLean's Advancer

A green, wrinkled variety of medium height, about two and one-half to three feet, with long, broad pods, about two and three-fourths to three inches long, which are abundantly produced and well filled to the ends. This pea is used very extensively by market gardeners because of its productiveness, the fine appearance of its pods, and is popular with consumers on account of its quality. It is also largely used by canners. By careful selection we have developed a strain showing market improvements in vigor of plant, size of pod and productiveness. Pkt. 10c; lb. 25c; 2 lb. 50c; 10 lb. \$1.75.

To Prevent Damage from Pea Louse

Sow a strip of turnip seed about five feet wide around the field of peas, which will attract the pea louse, and will feed upon the turnip instead of the peas; thus preventing the destruction of the crop. Sow early turnips with Early Peas and late turnips with Late Peas. This has been given us by an expert grower, who claims it to be a sure remedy.

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Telephone Peas

Duke of Albany A most valuable variety of the Telephone type; remarkably hardy in growth, producing dark green pods of large size, well filled with extra large sweet peas. The vines grow three feet in height and are very productive. Pkt. 10c; lb. 30c; 2 lb. 60c; 10 lb. \$2.25.

Telephone This has become the leading pea with market gardeners whose trade appreciates fine appearance and high quality. Vines tall and vigorous, growing about four feet high, with large, coarse, light colored leaves and producing an abundance of pointed pods of largest size, often four and one-half to five inches long, attractive bright green, filled with very large peas which are tender, sweet and of excellent flavor. It comes into use soon after the Premium Gem and is one of the best sorts for either home or market. Pkt. 10c; lb. 30c; 2 lb. 60c; 10 lb. \$2.25.

Alderman This comparatively new pea is in many respects the very best early main crop variety of the valuable Telephone type. The vines are tall growing, about four and one-half to five feet high, dark green, vigorous and exceedingly productive. Pods of largest size, often five to five and one-half inches long, dark green, similar to but a little larger and a shade darker in color than Duke of Albany and about the same in season. The peas are of largest size and unsurpassed in quality. Market gardeners are demanding the large podded, dark colored sorts which retain their fine appearance even after shipping a long distance. The Alderman answers these requirements and furthermore is the most productive variety of this class. We recommend it unreservedly. Pkt. 10c; lb. 30c; 2 lb. 60c; 10 lb. 2.25.

Later Varieties

Improved Stratagem Most stocks of the large podded, semi-dwarf, English varieties of peas have been so wanting in uniformity and evenness of type as to disgust American planters, but by constant effort we have developed a stock which comes true and we do not hesitate to pronounce it one of the best of the large podded sorts. The pods are of largest size, long and pointed, dark green, and uniformly filled with very large, dark green peas of the finest quality. Pkt. 10c; lb. 30c; 2 lb. 55c; 10 lb. \$2.00.

Marvelous A new, dwarf, wrinkled sort, of sturdy growth; early and very prolific. The pods are produced in pairs containing 8 to 10 large Peas of delicious flavor; height, 18 in. Pkt. 10c; lb. 35c; 2 lb. 65c; 10 lb. \$2.50.

Champion of England A very productive variety, universally admitted to be one of the richest and best flavored of the late peas. The vines are four to five feet high. The seed is light green and much shriveled. Very inferior and mixed stocks of this sort are frequently offered, but when the seed is as well grown and selected as that we offer we consider the variety equal in quality to any in cultivation and one of the best of its season, either for the home garden or market gardener. Pkt. 10c; lb. 30c; 2 lb. 60c; 10 lb. \$2.25.

Melting Sugar (Edible pods) There is a class of peas not generally known in this country but much used abroad in which the sweet, brittle and succulent pods have none of the tough, inner lining found in the ordinary varieties of garden peas. They are used in the same way as snap or string beans. Pkt. 10c; lb. 35c; 2 lb. 70c.

Large White Marrowfat The vines of this variety are about five feet high and of strong growth. The pods are large, cylindrical, rough, light colored, and well filled; seed large, smooth, round and light yellow. The variety is excellent for summer use but is inferior in quality to most of the newer sorts, although undoubtedly one of the most productive of the garden varieties. Pkt. 10c; lb. 25c; 2 lb. 45c.

Large Blackeye Marrowfat An excellent variety, growing about five feet high. It is a very prolific bearer of large pods. Seed large, smooth, round, light yellow with black eye. One of the very best of the Marrowfat sorts. Pkt. 10c; lb. 25c; 2 lb. 45c.

PEPPER

Pfeffer (Gr.)

Peperone (It.)

Peppers are most largely used for seasoning meat and vegetable dishes; also for making chow chow and chili sauce. The culture is the same as for egg plant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of spring in open seed bed, the soil being light and warm. When three inches high transplant in rows about two and one-half feet apart and two feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung or any other bird manure hoed into the surface soil when the plants are about six inches high will undoubtedly increase the product.

Red Cherry A second early sort. Plant tall, bearing a profusion of round, bright red fruits which are very pungent when ripe. A very ornamental plant when in fruit. Oz. 40c; ¼ lb. \$1.10; lb. \$4.00.

Giant Crimson The earliest maturing of the extremely large, red sweet peppers and surpassed by none in evenness of size and shape. The plant is vigorous and upright, growing two and one-half to three feet high, larger than that of Chinese Giant and more productive. The fruits are of the largest size, ripen earlier than any of the other very large sorts and average heavier, as the flesh is exceptionally thick. Color deep green when fruit is young, deep crimson when matured; flavor very mild. Oz. 60c; ¼ lb. \$2.00; lb. \$6.00.

Red Chili A late variety. Pods bright, rich red, about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. Oz. 40c; lb. \$4.00.

Long Red Cayenne A well known medium early variety having a slender, twisted and pointed pod about four inches long. Color deep green when fruit is young, bright red when ripe. Extremely strong and pungent flesh. Oz. 40c; ¼ lb. \$1.10; lb. \$4.00.

Large Bell, or Bull Nose Our stock of this well known variety, sometimes called Sweet Mountain, is very superior. Plant vigorous, about two feet high, compact and very productive, ripening its crop uniformly and early. The fruits are large, with thick, mild flesh of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe. Oz. 45c; ¼ lb. \$1.25; lb. \$5.00.

Ruby King An improved American variety, very large and attractive. The plant is about two and one-half feet high, vigorous, compact and productive. The fruits are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed pepper. Oz. 45c; ¼ lb. \$1.25; lb. \$5.00.

Chinese Giant Plant dwarf, fruit of mammoth size, very broad, yet rather short. It is very late and a rather shy yielder. Popular on account of its large size and mild flavor. Our stock is pure and is as good as can be obtained. Oz. 55c; ¼ lb. \$1.85; lb. \$7.00.

Large Sweet Spanish A late maturing and attractive, red, sweet pepper. Plant about two and one-half feet high, upright, very compact, vigorous and productive. Fruits very large and long, frequently seven inches in length and about two inches in diameter, with very thick, mild flesh of excellent quality. Color deep green when fruit is young, rich red when ripe. Oz. 45c; ¼ lb. \$1.25; lb. \$4.00.



Bell or Bull Nose

POTATOES

Early Ohio "True to Name" Red River Valley Early Ohio Seed Potatoes, grown in the Red River Valley, the noted seed potato growing section of the United States. Buy your seed stock now, which will be good for the years to come, as they will not "run out," but will hold true to type for many years.

Irish Cobbler Is the best early white potato grown. The tubers are smooth, round, plump and handsome. The flesh is white and of splendid quality. Per bushel, \$4.50.

True Early Rose The Early Rose is the old standard early potato; rosy blush skin, white flesh; early, productive, and of excellent flavor; a fine keeper.

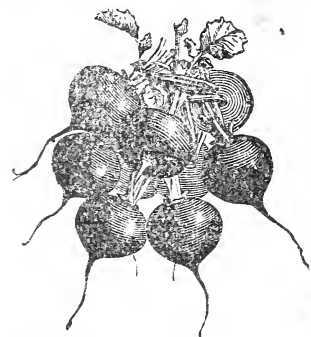
Late Russet The famous "Russet" recently introduced from Michigan yielded 200 bushels to the acre on a Tully farm in 1914, many specimens weighing 15 to 20 ounces. Most vigorous grower and an immense yielder. It is bug proof and blight proof. Has a russet skin; flesh white as snow. A fine cooker. The most valuable late sort on the market. For further particulars, see page 15.

Carman No. 3 Another large, round, white, main crop potato; tubers are very large, eyes are shallow and few in number, and it is an immense yielder of large potatoes.

Melonen-Kuerbliss (Gr.) Connecticut Field, per oz. 10c; lb. 60c.
Cashaw Pumpkin, fine table, per oz. 15c; lb. \$1.25.
Cheese Pumpkin, fine for table, per oz. 15c; lb. \$1.25.
Mammoth Prize Pie, per oz. 15c; lb. \$1.25.

PUMPKIN SEEDS

Radles (Gr.) Being a root crop, good and mellow to insure quick growth. If permitted to grow slowly, they become tough and pithy. They are easy to grow and frequent plantings will insure a constant supply for the table. Summer varieties can be sown all spring and well into summer. Winter varieties, however, require some time to mature, and the seed should be planted in August and September for good radishes in November and December.



Radish Small Top—New Deep Scarlet Turnip

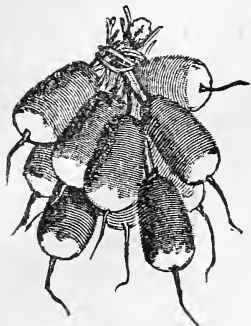
RADISH

Excelsior Very Early For a forcing radish this stands at the head of the list, being the earlieset, best and brightest scarlet turnip shaped sort on the market. Oz. 15c; lb. \$1.25.

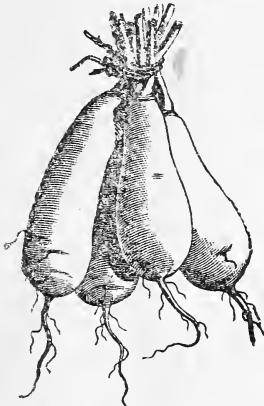
Vick's Scarlet Globe This grand radish has established a reputation as a forcing sort. Its peculiarity is that it will bear the heat requisite for forcing without becoming pithy in character or suffering injury to its flavor. Its attractive shape is shown in the illustration. Its color is a rich scarlet. It has a small top and is a high bred radish. Oz. 15c; lb. \$1.25.

Crimson Giant Forcing A new variety which will be a popular market and home garden variety, since it matures very early and remains firm and crisp much longer than other short varieties. Color, rose carmine with white tip. It is top-shaped. Oz. 15c; lb. \$1.25.

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French Breakfast



Chinese Rose Winter

Brightest Long Scarlet A very showy, long variety. Is thick at the shoulder and tapering. Bright rose scarlet with distinct white top. Oz. 15c; lb. \$1.25.

French Breakfast A popular variety for market or forcing. It is about two inches long and decidedly stump-rooted. Color, bright rose with bottom of root and the tail pure white. Oz. 15c; lb. \$1.25.

Chinese White Winter, or Celestial (or Cal. Mammoth White Winter.) The well-known and popular winter variety. Clear white, about four inches long and half stump-rooted. Keeps firm and crisp until it runs to seed. Is a good cooking variety, and when cooked the flavor resembles turnip. Oz. 15c; lb. \$1.00.

Chinese Rose Winter A bright scarlet winter variety. About four inches long and stump-rooted. Matures two or three weeks earlier than the Chinese White Winter and like it is firm and crisp and does not grow pithy until it runs to seed. Oz. 15c; lb. \$1.00.

White Strasburg A white radish, of large size, good quality, and ability to resist severe heat. I always recommend White Strasburg for summer planting. It will grow solid, with good flavor, when others fail. Popular with market gardeners. Oz. 15c; lb. \$1.00.

Giant Stuttgart This mammoth white radish is the largest of the turnip shaped sorts. It has solid, crisp, pungent flesh, and is highly prized by people demanding a radish of high flavor. Both skin and flesh are pure white. It should be given plenty of space in the row. Oz. 15c; lb. \$1.00.

Icicle A handsome white variety, about 5 inches long, with sloping top and pointed root. Quick growing, brittle, and mild in flavor. Oz. 15c; lb. \$1.00.

Early Round Dark Red, or Prussian Globe A bright scarlet turnip-shaped variety. Early, quick growing, and a handsome radish. Oz. 10c; lb. \$1.00.

Round Black Spanish A winter variety, with black skin and white flesh. It is top-shaped or almost globular. Oz. 15c; lb. \$1.00.

Black Spanish, Half Long A shorter, olive-shaped variety with half stump-root and sloping top. Oz. 20c; lb. \$1.00.

RHUBARB

Rhabarber (Gr.)

Rabarbara (It.)

CULTURE.—Plant roots four feet apart each way, in very rich, well manured soil. Cultivate well and top-dress liberally. Plants easily grown from seed. Sow in drills about 18 inches apart, and thin the plants to 12 inches in the drills. Use one ounce to 75 feet of drill. **Victoria** A good market sort, with beautiful red stalks. Pkt. 5c, Oz. 15c, 1/4 lb. 40c, lb. \$1.50. Roots, 15c each, 4 for 50c, postpaid. By express or freight, not prepaid, \$1.25 per dozen.

SAGE

A hardy, perennial shrub, with whitish-green, oval, and very much wrinkled leaves, which have a pleasant smell and which are used for seasoning. It is easily grown and the seed can be sown almost any time. Its fragrant, purplish flowers are especially attractive to bees, and the finest white honey has its source in sage blossoms. Oz. 40c.

Haferwurzel (Gr.) SALSIFY, or VEGETABLE OYSTER

Sassefrica (It.)

CULTURE.—Sow early and deeper than parsnip, otherwise culture is the same and, like that, roots, if desired, may be left in the ground through the winter, but should be dug very early in the spring, as they deteriorate rapidly after growth commences.

Mammoth Sandwich Island Larger, of stronger growth, and less liable to grow prongy than the old Long White. Pkt. 5c, oz. 20c; 1/4 lb. 65c; lb. \$2.00.

SPINACH

Spinace (It.)

Spinat (Gr.) An easily grown plant, the seed of which may be planted in the fall to secure good spinach early in the spring or even throughout the winter. The better and richer the soil, the larger and more tender the leaves will be. As a field crop for the market garden, use 1 pound of seed per acre. For the home garden use one-half ounce for 100 feet of row.

Bloomsdale Savoy The variety most generally used in the East, and especially throughout the South for shipping. Leaves large, round and thick, very much savoyed and rich deep green. One of the earliest varieties. Seed round. Oz. 5c; lb. 40c; 10 lb. \$3.00.



LONG SEASON SPINACH.

Long Standing A deep green variety with rather elongated smooth leaves. Seed, round. Stands a long time without running to seed. Oz. 10c; lb. 60c; 10 lb. \$5.00.

Victoria A long-standing variety with round, slightly savoyed leaves. Deep green and hardy. Forms good, edible leaves early and continues to produce leaves for a long period. Oz. 10c; lb. 60c; 10 lb. \$5.00.

Norfolk Savoy Forms a dense rosette of thick, tender and succulent crumpled or blistered leaves of dark green color. With this variety spinach may be continuously grown in any home garden. The best variety to be sown in the spring and at intervals for a successional summer supply. It is invaluable to both home and market gardeners. Oz. 10c; lb. 60c; 10 lb. \$5.00.

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Prickly The variety commonly used for market in California. Is very hardy and easily grown; bears large, smooth leaves, which are shaped like an arrow point. Color, bright green. Seed irregular with three or four sharp points. Oz. 10c; lb. 50c.

New Zealand A plant with thick, fleshy texture and soft crystalline leaves. Is not like the ordinary spinach in appearance, but it is used in the same way. Oz. 20c; lb. \$1.00.

Round, Thick Leaved A large-leaved, bright green variety. Leaves rather smooth and rounded at the top. A good variety for late spring and summer. Seed round. Oz. 10c; lb. 40c.

SQUASH

Kuerbiss (Gr.)

Zucca (It.)

The summer varieties come into use early in the summer, but being sensitive to frost the seed cannot be sown until late in April. The seed should be planted in hills four feet apart, using four ounces to 100 hills. The winter varieties are also unable to resist frost, and should be planted at the same time. The fruit does not mature until late in the fall, and, having a very firm, hard shell, keeps well, and with a little care squashes can be had all winter and until late in the spring. In gathering winter squashes, it is important to protect the stems, since if broken off the fruit will not keep so well. Plant in hills six to eight feet apart, using two or three seeds to the hill. Use eight ounces to 100 hills, or two pounds to an acre. Moderately rich soil will grow good squashes.

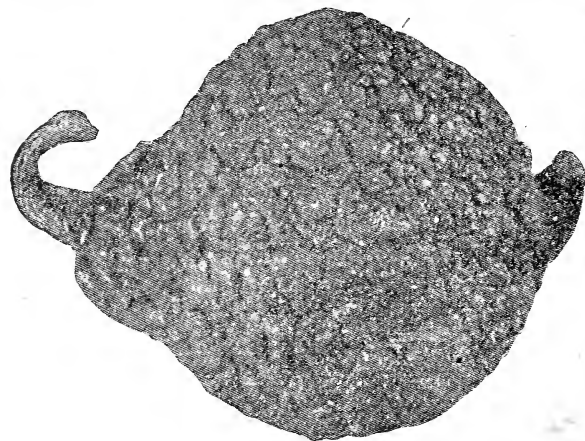
Mammoth Summer Crookneck A large golden-yellow variety, thickly warted; is eighteen inches long, brittle and tender. Plants are bush and very prolific. This is an improved strain of the old variety and considerably larger. Oz. 15c; lb. \$1.50.

Burpee's Fordhook Squash A most desirable running variety for both summer and winter use. The vines are of strong, vigorous growth and wonderfully productive. Fruits oblong in form, eight to ten inches in length, slightly ridged, smooth thin yellowish skin; flesh very thick and of a light straw yellow. If gathered young for cooking, no other squash approaches it in flavor, while if allowed to ripen on the vine they can be stored and will keep in excellent condition until late the following June. Either for baking like sweet potatoes or making pies during the winter the quality is unsurpassed. Oz. 15c, lb. \$1.50.

Burpee's Bush Fordhook Squash Being of "bush growth," the plants can be grown much more closely together. The fruits are rather shorter and thicker than those of the running type; they are also thicker fleshed and have a smaller seed cavity, but unfortunately do not come as true to type. Our Fordhook squash is about a week later than the Early White Bush; it is much sweeter and better flavored. Oz. 15c, lb. \$1.50.

The Faxon A very desirable variety for the home garden, very productive, of medium size (five or six pounds), fine-grained, dry, sweet, a good keeper, uniform in shape, but varied in color. This variation in color is a distinct feature of the squash. Oz. 15c; lb. \$1.25.

Mammoth White Bush Scallop An improvement on the old variety, larger, pure white and superior in quality. Oz. 15c, lb. \$1.50.



Hubbard Squash

It grows to large size, is a fine keeper and shipper, 20c; lb. \$1.75.

Mammoth Chili The largest variety, attaining under special cultivation enormous size, its cooking qualities unsurpassed. Oz. 20c, lb. \$1.50.

Boston Marrow This grows larger than either of the preceding, but is not of so deep color; skin thin, yellow, with pinkish tint; desirable for pies, not so dry as the Hubbard. Oz. 15c; lb. \$1.00.

Delicious One of the thickest meat and very best in quality, not excepting Hubbard. Although at any time excellent, does not acquire its best quality until winter. Oz. 20c, lb. \$1.50.

Golden Hubbard A distinct sort, of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and a rich orange-red instead of the dark olive-green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine-grained and dry. Oz. 20c, lb. \$1.75.

Hubbard This is a distinct strain of the famous Hubbard and is an ideal winter squash for marketmen. The shell is a dark green in color, the flesh dry and sweet in flavor. Its cooking qualities unsurpassed. Oz.

SWISS CHARD

Giant Perpetual ("Cut-and-Come-Again") Spinach Swiss Chard This, though a variety of Chard, is to all practical purposes a giant spinach, the huge curled leaves being tender and cooking readily, with a decided spinach flavor. Its great merit is that it will supply the greens from spring until late in the fall. The large mid-ribs can be cooked and served like asparagus. If wanted for greens cut when 6 inches high just above ground and it will grow out again. Oz. 15c; lb. \$1.00.

SQUASH BUGS—Spray Pyrox with an under-leaf upturned nozzle—sure death.

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SWEET HERBS

CULTURE.—Sow in early spring, at the time when the trees begin to leaf, in ordinarily good and well drained garden soil, in rows 12 to 24 inches apart. Cover seed lightly. Thin or transplant to stand 6 to 12 inches apart in the rows. Cultivate frequently and keep free from weeds.

	Packet
Anise, seeds aromatic.....	10c
Balm, has medicinal qualities.....	10c
Basil, sweet.....	10c
Borage, leaves used for salad.....	10c
Saraway, seeds aromatic.....	10c
Chives, edible.....	10c
Corlander, seeds aromatic.....	10c
Dill, seeds aromatic and medicinal.....	10c
Fennel Sweet, seeds aromatic.....	10c
Horehound.....	10c
Lavender, leaves aromatic.....	10c

	Packet
Marjoram, leaves used in seasoning.....	10c
Mint (peppermint).....	10c
Rosemary, aromatic.....	10c
Rue, medicinal qualities.....	10c
Saffron, medicinal qualities, also dyeing.....	10c
Sorrel.....	10c
Sage, culinary herb.....	15c
Savory, Summer, culinary herb.....	10c
Tarragon or Estragas (roots), each.....	25c
Thyme, culinary herb.....	10c
Wormwood, medicinal qualities.....	10c

TOBACCO SEED

Havana Tobacco Seed, per oz. \$1.00, per pkt. 10c.

Liebesapfel (Gr.)

TOMATO

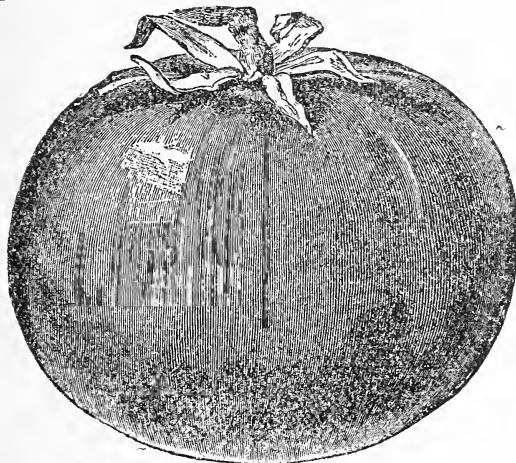
Pomodori (It.)

As tomatoes are very sensitive to frost, they cannot be set in the open field until about May 1st. The seed must be sown in well protected hotbeds, sowing same about March 1st. A hardy and stocky plant is had by transplanting the small plants in the bed a few weeks before transplanting to the field. Or when about four inches high, the top may be pinched off and the plant grows stockier.

Sow the seed broadcast, using one ounce to about three square feet of area, which will yield plants enough to set an acre. In the field set tall varieties six feet apart and dwarf varieties three feet apart. A slight trellis is advisable in the garden. A moderate amount of water should be applied at the roots at regular intervals.

Bonney's Best Early

An extra early variety having great favor with the market gardeners. Vines vigorous and productive, fruit solid without hard core. Color bright scarlet. Fine, early, handsome, especially profitable for market gardeners' use. Oz. 35c; lb. \$3.50.



Chalk's Early Jewel

scarlet color, and of fine quality. Very valuable for early market use. Oz. 35c; lb. \$3.50.

Beauty

A rather early, tall variety; very prolific, with good-sized, smooth fruit of a purplish-carmine color. Oz. 35c; lb. \$3.50.

Livingston's Dwarf Stone

Another splendid new variety from Livingston. This is what he says of it: "The same sort of tomato as Dwarf Champion, but the vine is of stronger growth, and the fruit is of double the size. It is equally early, is equally prolific. The shape of the fruit is perfect. It is very solid, ripens very evenly and is of excellent quality. Oz. 30c; lb. \$3.00.

Dwarf Champion

A dwarf variety, sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising. Fruit medium-sized, smooth, uniform, and of a purplish carmine color. Oz. 40c; lb. \$4.00.

Matchless

A tall-growing, prolific variety with large fruit, which is rather flattened, smooth and uniform. Color, bright scarlet. For canning and general main crop market, there is no better tomato grown. Extra selected strain. Oz. 30c; lb. \$3.00.

Ponderosa

An extremely large, irregular-fruited variety. Vine tall, and fruit very solid and purplish-carmine in color. Rather coarse and of fair quality only. Oz. 60c; lb. \$6.00.

Red Cherry

The fruit is small and globe-shaped, about one to two inches in diameter. It is very valuable for preserving. Oz. 40c, lb. \$4.00.

Red Pear Shaped

As the name implies, the fruit is shaped like a pear—small at the stem and enlarged at the top. It is small, being about two or three inches long. It is bright scarlet. Oz. 40c, lb. \$4.00.

Golden Queen

(Bright yellow.) Best large yellow tomato. Much like Paragon, except in color. Always smooth and ripens early. Quality excellent in all respects, either for slicing or preserving. Queen of all the yellows. Oz. 40c, lb. \$4.00.

Pear-Shaped Yellow

(Bright yellow.) A pretty tomato, similar to Pear-Shaped Red, except in color. Oz. 40c, lb. \$4.00.

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Steckrube (Gr.)

TURNIPS

Pastinaca (It.)

While turnips are a favorite fall and winter vegetable, they may also be had in the spring by proper sowings. They are of easy culture, but need well-worked, rich soil to insure a quick, uninterrupted growth, when they will be tender and free from woodiness.

For fall and winter use sow the seed in August, in rows 10 to 18 inches apart, using one ounce to 250 feet of row, thinning the plants when very young to three or four inches apart. For spring use sow in January. For field culture sow in rows about two feet apart, using one to three pounds of seed per acre.

Early Snowball A medium globe-shaped variety of pure white. Very solid and of the best quality. Oz. 10c; lb. \$1.50.

Early White Flat Dutch (Strap Leaf) A medium-sized, flat variety; clear white, early, and of fine flavor. A fine table variety. Oz. 10c; lb. \$1.00.

Early White Milan Roots flat, smooth and symmetrical; pure white. Top very small, upright and compact, permitting close planting. The earliest and much the best of any extra-early white variety. Oz. 10c; lb. \$1.00.

Early Purple-Top Milan Differs from the preceding in that the roots are not quite so thick and are purple on top. Oz. 15c; lb. \$1.00.

Early Purple-Top Flat A well-known variety and very extensively grown. Roots smooth, white, with the upper portion purplish red. Oz. 10c; lb. 75c.

Early Purple-Top White Globe One of the handsomest varieties, the upper portion of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. Owing to its strong growth should be more severely thinned than other early varieties. We offer New England grown seed of a selected strain, which repeated trials have shown to be much superior to those generally offered. Oz. 10c; lb. 75c.

Cow Horn A long white turnip. Grows to a large size, standing half out of the ground. It is fine flavored and desirable. Cow Horn turnip sown in connection with Rape is one of the newly recommended things for green manuring purposes. Oz. 10c; lb. 75c.

Ruta-bagas or Swedish Turnips

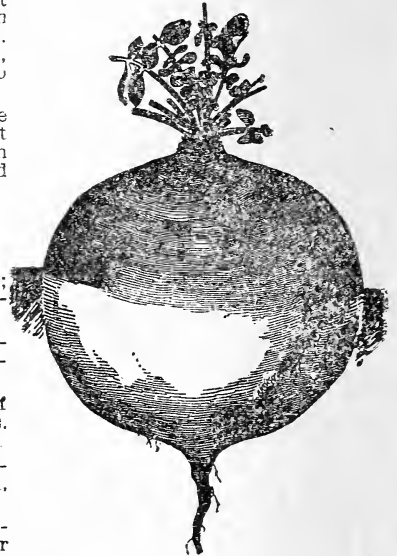
Laing's Improved Swede One of the earliest; handsome round variety; fine for the table. Oz. 10c; lb. 90c.

Sweet German, or Russian white, sweet, excellent; a first-rate keeper. Oz. 10c; lb. 90c.

Carter's Imperial Swede This is the best of the Swede turnips. Oz. 10c; lb. 90c.

American Purple-Top Very hardy and productive; flesh yellow, solid, sweet; good for stock or table use. Oz. 10c; lb. 90c.

Long Island Improved Bred from the "American Purple Top," over which it is a great improvement, being nearly double the size; an immense yield and good keeper; flesh rich yellow, of fine quality. Oz. 10c; lb. 90c.



Ruta Baga American Purple Top Turnip

Improved American Rutabaga Best and heaviest cropper of all rutabagas. Of fine form, with rich purple colored top and light yellow flesh, of most pleasing appearance. flesh is tender and sweet—free from hard, stringy nature. Has comparatively small tops, fine feeding roots, and is the surest and heaviest cropper. We have sold this special strain of American Rutabaga for nearly twenty-seven years and we have never had a variety of vegetable that has given such general satisfaction in all sections and in all kinds of seasons. Packet 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

MASTICA FOR GLAZING GREENHOUSES, SASHES,

Etc., new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold.

Every green house man has experienced difficulty in using putty for glazing, that is satisfactory for any length of time. Putty is not adapted for greenhouse work. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance, and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of re-laying the glass.

The use of "Mastica" avoids the necessity of repeatedly reglazing the houses, saving much time and expense. With "Mastica" you can bed in or use outside with machine.

Broken glass can be easily removed and replaced by new without the breakage of other glass, which usually occurs with hard putty. One gallon will cover about 290 running feet (one side.)

Price of Mastica $\frac{1}{4}$ gal. 85c, $\frac{1}{2}$ gal. \$1.50, gal. \$2 50



MASTICA
GLAZING
MACHINE.

PRICE \$3.00.



Root Salt Cakes and Frames

For Horses, Cattle and Sheep. Pure Refined Salt. Acts as a tonic; invigorates the system; promotes digestion; purifies the blood. Makes healthy and vigorous animals.

25C. CAKE

Six Cakes for One Dollar
per dozen Two Dollars

Frames, - - - - - 35 Cents

Climax Handy Weeder



The greatest "little" device ever invented.

Nothing like it.

Thousands in use.

PRICE, 75 CENTS



Waters Tree Pruner
\$2.00 to \$3.00



OUR F. G. F.

PRUNING SAW.

This is a very practical Pruning Saw. It is a self-feeding draw cut blade with a thin back that will not pinch or bind; may be attached to a pole, permitting very rapid work on the tops of trees so difficult to reach.

PRUNING SHEARS
PRUNING SAWS
TREE PRUNERS
LOPPING SHEARS
BASKET CLIPPERS
PRUNING SAWS WITH POLE

Price \$2.50.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FERTILIZERS

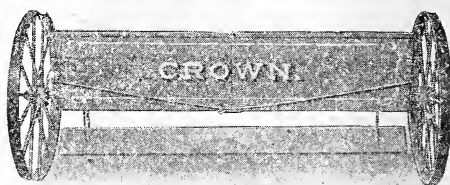
	Analysis	Ton
Oats, Barley, Weat, Corn	2-11-0	\$42.00
Corn and Grains	1-8-1	35.00
Corn and Grain	2-8-3	43.00
Onions, Celery, Potatoes	3-9-5	51.00
Potatoes and Root Crops	4-8-4	54.00
Cabbage	1 1/2-10-0	39.00
Acid Phosphate	16%	28.00
Kainit		18.00
Nitrate of Soda		70.00
Muriate of Potash		60.00
Sheep Fertilizer		50.00

A Liberal Discount to Cash Customers

SALT LIME AND FERTILIZER BROADCASTERS

CROWN Broadcasters are constructed principally to sow Lime; they also handle perfectly all kinds of fertilizers and other soil benefical-fes. All soil can be made more productive either by the application of some form of Lime to neutralize the free acid therein, or by the appli-cation of some other alkaline or in some cases an acid element to complete the neutral condi-tion. Most plants are adapted by long practice to grow in soil that is approximately neutral.

CROWN Broadcasters are strong machines. Box rooms ten bushels. Force feed is attached directly on the main drive axle. No gears to freeze, strip or break. Ratchet wheels. Quan-tity can be changed instantly by one lever in center of hopper. Price \$40.00 to \$50.00.



BLATCHFORD'S CALF MEAL

The Complete Milk-Equal



Sold in 100, 50 and 25-pound bags

is in reality a substitute for milk—and should not be considered as an ordinary "feed" or "meal."

It contains all the elements of milk—a "baby food" for calves.

It is absolutely the *only* milk-substitute that contains in proper proportion the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for easy digestion.

100 pounds make 100 gallons of Complete Milk-Equal

TRADE MARK

SAL VET

REG. U.S. PAT. OFF.

is a medicated salt—different from all other worm remedies. Safe, sure to kill worms, tones up your stock, helps turn food into fat and flesh quickly, puts animals in prime condition to get top-market prices. Commence getting rid of robber worms today. Use Sal-Vet—costs but 1-12 cent per day, per hog or sheep.

FOR SALE BY

F. H. Ebeling

5-lb. package.....	\$.50	Each 100-lb. keg.....	\$ 5.00
15-lb. drum.....	1.40	Each 200-lb. bbl.....	10.00
50-lb. drum.....	3.50	Each 300-lb. bbl.....	13.00

5-lb. Pkg. 70c.

THE "LITTLE WONDER" HEDGE TRIMMER REVOLUTIONIZING HEDGE TRIMMING

Trims every variety of hedge grown.

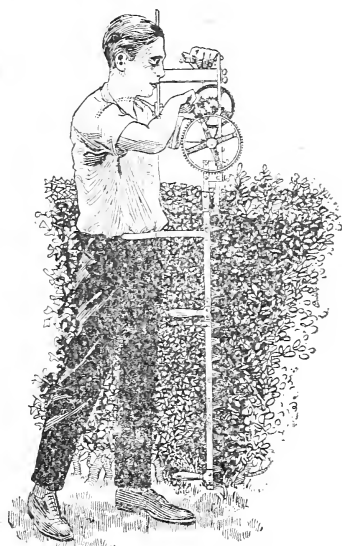
It is wonderful how quickly it cuts (actually as fast as you walk), and how smooth a job it makes and how easily it operates. A lady can easily operate.

An amateur becomes proficient almost immediately.

PAYS FOR ITSELF IN ONE DAY'S CONSTANT USE

Price \$27.50. May be sent by parcel post.

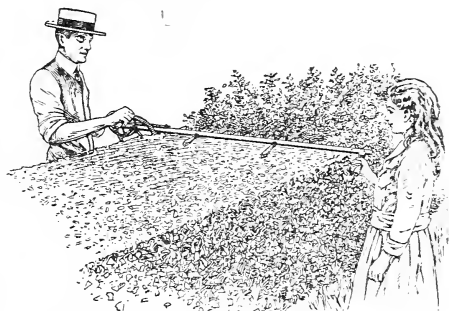
Guarantee for one year and complete instructions (so simple that a child can assemble), accompanies each machine.



Side cuts on hedges as high as four feet are made in this fashion. Adjustments compensate for short or tall operators.



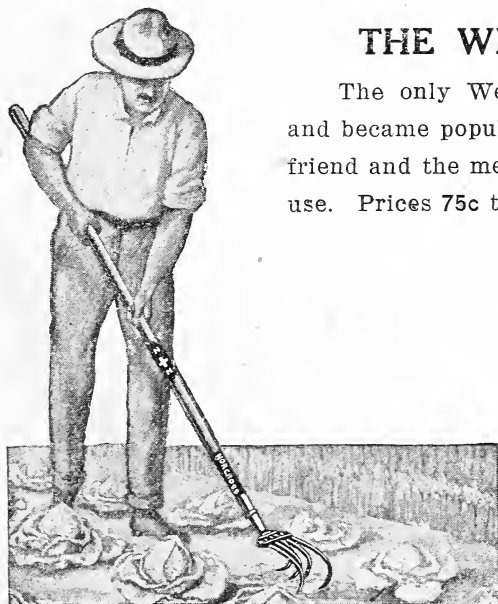
Method for top cuts on hedge up to 3 feet to 3 feet 6 inches. Where hedge is higher, two persons operate, as shown in other cut.



It cuts from five to ten times as fast as by hand and does better work.

THE WEEDER THAT WEEDS

The only Weeder that has proved a real success and became popular over night. The ladies' real garden friend and the men swear by it. More than a million in use. Prices 75c to \$1.50.



PLANTS FOR SPRING PLANTING

Cauliflower
Cabbage
Tomato
Egg Plant
Pepper

Kohlrabi
English Daisy
Salvia
Aster

Verbenas
Snap Dragon
Pansy
Lily of the Valley

BULBS FOR SPRING PLANTING

Cannas
Gladioli
Caladium

Tuberous Begonia
Dahlia
Montbretias

Tube-roses
Madiera Vines

FLORISTS' SUNDRIES

Self Registering Thermometers	Hanging baskets
Tin Foil	Flower Supports
Green Moss	Plant Stands
Florist Letters	Trellises
Raffia and Reed	Shears
Immortelles	Scissors
Mastica	Fine Cutlery
Plant Labels	Syringes for Plants
Fumigators	Flower Pot Brackets
Bulb Syringes	Sharpening of Shears, etc.
Glazing Points	Lawn Seed and Fertilizers
Flower Pots	Bird Supplies
Hyacinth Glasses	Wire Plant Supports

GALVANIZED WINDOW BOXES

Silkline, per spool, 30 cents

BERRY BASKETS.

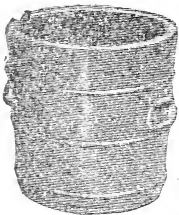
Under the new law all Berry Baskets must be made up to the standard size. We offer Berry Baskets of correct size and shape and well made. Prices right. Our Baskets fit the Crate perfectly. We can save you money on berry baskets if you place orders early. Call and see us before buying.

GRAPE BASKETS

We carry a large stock of Grape Baskets at the lowest market price.

FLOWER TUBS, ALL SIZES

\$1.25 \$1.50 \$1.75 \$2.00 \$2.50 \$3.50



Flower Pots

Hanging
Baskets

Fern Pans

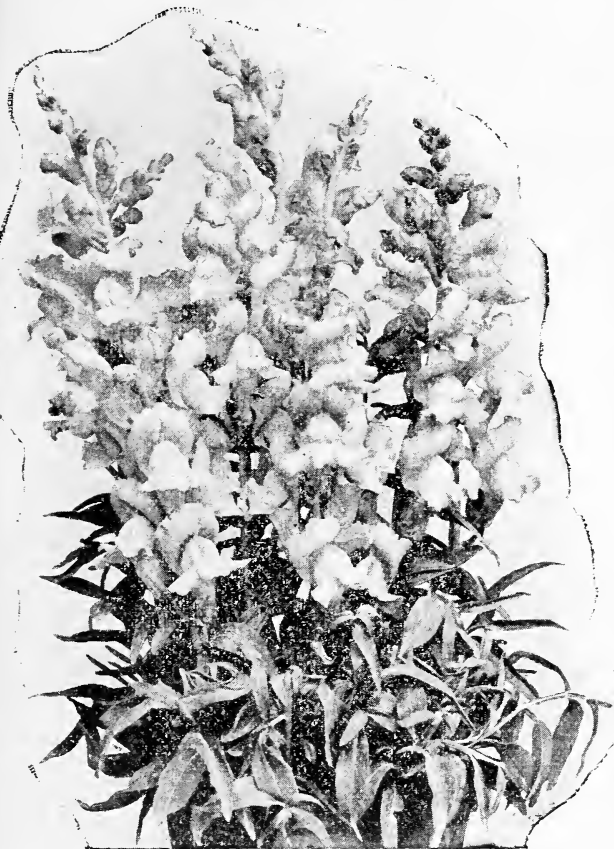
Lily Pans

TRELLISES, URNS, VASES, SETTEES.

We offer a fine variety of styles in various sizes suitable for lawns front, yards, cemeteries, parks etc. These can be furnished to order on short notice, at reasonable prices. For full particulars, write or call and see us.



SELECT FLOWER SEEDS



ANTIRRHINUM OR SNAP DRAGON

ABUTILON (Chinese bell flower or flowering maple) Free flowering, perennial shrub; fine for indoors. For outdoor sow before April. Will bloom first season. 10c pkt.

ACONITUM (Monk's hood or Wolfs bane) Hardy, perennial, long spikes of odd shape blue and white flowers, adapted to shady corners or among shrubbery; 3 to 5 ft. 10c pkt.

ACROCLINIUM. Pretty, annual everlasting, 15 inches high, lovely white or rosy pink flowers fine for border. Sgl. or dbl. 10c pkt.

ADLUMIA (Mountain fringe or Allegheny Vine) A hardy biennial climber, will resow itself year after year, feathery foliage resembling Maiden-hair Fern, flowers tube-shaped, flesh colored completely covering the plant, fine for trellises, stumps, etc. 10c pkt.

ADONIS (Pheasant's eye) Flos Adonis, Showy, hardy, annual, of easy culture, fine cut foliage, blooms a long time; dark crimson flower with light center. Height 1 ft. 5c pkt.

AGERATUM (Floss Flower) Fine bedding sort, literally a sheet of bloom from early summer until frost; not liable to be spoiled by rain, flowers not liable to fade; easily raised from seed. Sow in March or in hot-bed and transfer into open ground in June when weather is suitable, valuable for winter flowering for conservatory. 5c pkt.

Blue Perfection. Dark blue, largest flowering, fine bedder. 10c pkt.

Little Dorrit. Beautiful, compact, sky blue, white-center, very exquisite. 10c pkt.

Mexicanum. Lavender blue, 1½ feet. 5c pkt.

Imperial Dwarf White. Height, 8 inches. 5c pkt.

AGROSTEMMA (Rose of Heaven) Free blooming, hardy, perennial, blooming first season, height 1 to 2 ft. Mixed 5c pkt.

ALYSSUM (Mad-wort) Pretty little plants for beds, vases, baskets, edging, etc. Bloom profusely all summer, also useful for winter. Very sweet-scented.

Little Gem (or Carpet of Snow) 4 to 6 inches in height, each plant covering a circle of 15 to 30 inches. 5c pkt.

Sweet Alyssum. Trailing flowers, white. 5c pkt.

Saxatile Compactum (Basket of Gold), handsome yellow flowers, hardy perennial, blooming first season, fine for rock work, 1 ft. 10c pkt.

AMARANTHUS. Brilliant foliaged annuals, 3 to 5 ft. Useful in borders or centers of large beds. Do not plant too closely.

Brilliant. Foliage bright red, ends of branches carmine-rose, red and yellow. 10c pkt.

Caudatus (Love lies Bleeding) Blood red, drooping foliage, 3 ft. 5c pkt.

Sunrise. Bronzy Crimson to brilliant scarlet. Fine for parks and large beds, 3 ft. 10c pkt.

Tricolor (Joseph's Coat) Leaves red, yellow and green, 3 ft. 5c pkt.

AMMOBIUM (Winged Everlasting) Grandiflorum. Pretty Border, annual everlasting, flow-white with yellow disc. 5c pkt.



SWEET ALYSSUM

AMPELOPSIS (Boston or Japanese Ivy) Hardy, perennial climber, olive green leaves turning to scarlet in fall. Popular climber, fine for brick or stone walls. 10c pkt.

ANCHUSA (Alkanet) Italica Dropmore Variety. One of the best hardy perennials, and becoming more popular each season, grows 3 to 5 feet high, and bears in abundance flowers of the richest gentian-blue during May and June. 15c pkt.

ANEMONE (Windflower) Hardy, perennial, large flowers, fine for bouquets.



ASTER CHRYSANTHEMUM

ANTHEMIS (Hardy Marguerite) Kelwayi. A most satisfactory hardy perennial, bearing all summer daisy-like golden-yellow blossoms; excellent for cutting; 2 ft. 15c pkt.

Coronaria. Mixed Colors (Poppy Anemone). 10c pkt.

St. Brigid. A beautiful selection of the above, our seed comes from a famous Irish grower and comprises semi-double and double flowers in a wonderful array of colors. 15c pkt.

ANTIRRHINUM (Snap Dragon)

Giant Varieties. Of tall growth, very large individual flowers:

Scarlet, White, Yellow, Garnet, Pink (Silver pink), Rose (Rich rose). 10c pkt.

Giant Mixed. A splendid mixture, containing all the colors. 10c pkt.

AQUILEGIA (Columbine) Charming, hardy, perennial, 1 to 3 ft., profuse bloomer, blue, white rose, yellow, purple, striped, etc. Fine for borders. Sgl. mixed-5c pkt. Dbl. mixed 5c pkt.

Long-Spurred Hybrids. A beautiful strain comprising shades and combinations of blue white, yellow, orange, scarlet and bright rose-pink, in large flowers with long spurs. 15c pkt.

ARABIS (Rock Cress) Alpina very early, pure white, spring flower, appear as soon as snow disappears. Fine for rockeries or edging. 6 inches high. 10c pkt.

ARCTOTIS (African Daisy) Grandis. A remarkably handsome annual from Southwest Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue. 10c pkt.

ARISTOLOCHIA SIPHO (Dutchman's Pipe) A quick growing climber with large heart shaped leaves. 10 pkt.

ARMERIA (Sea pink or cushion pink) Very pretty edging plant, bearing large tufts with rosy pine flowers, hardy perennial. 10c pkt.

ASPARAGUS Plumosus Nanus Graceful climber, finer than most delicate ferns. Will last for weeks after being cut, easily cultivated. 25c pkt.

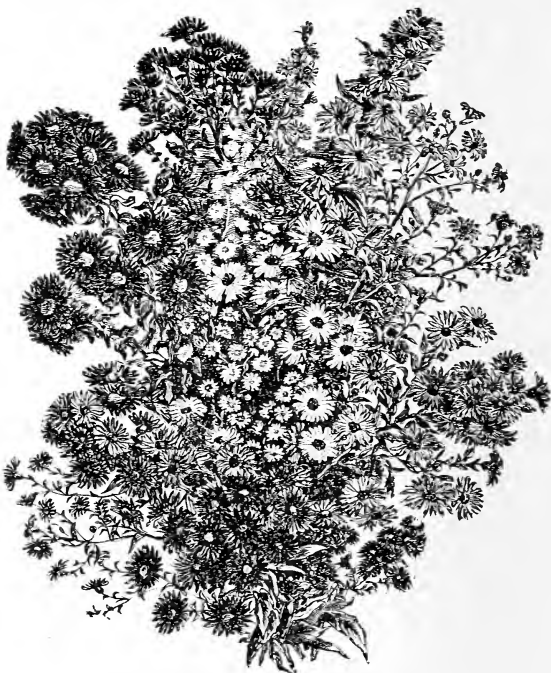
Sprengeri. One of the best for hanging baskets or general purposes, fronds 4 ft. long. 10c pkt.

ASPERULA ODORATA (Sweet Woodruff) Fragrant leaves and stems, grown in shaded places, white flowers. 5c pkt.

ASTERS are now one of the most important summer and autumn flowers. Their immense popularity and world-wide demand shows their adaptability to any soil or climate, there being early medium and late flowering sort which extends the blooming period from early July until frost. For the best results the ground should be very rich. Good results can be obtained from ordinary garden soil.

BRANCHING VARIETIES:

	Per ¼ oz.	Per pkt.
Azure Blue. A deep rich lavender	60	10
Deep Crimson. Rich and glowing	60	10
Deep Rose. Distinct and fine.....	60	10
Pale Lavender. Exquisite greyish-blue	60	10
Deep Purple. A rich royal shade..	60	1\$
Rose-pink. A lovely shade; very popular	60	10
Shell-pink. Soft and dainty	60	10
Pure White. Perfect in its purity	60	10
Collection. A packet each of the 8 colors, 60c.		
Finest Mixed. All the colors mixed. ¼ oz., 50c; 10c per pkt.		
Sensation (Oxblood). 10c pkt.		



SINGLE ASTERS

CREGO'S GIANT COMET ASTERS. We consider this the finest and largest of all Comet Asters, bearing immense fluffy flowers five inches and over in diameter, as fine as any Chrysanthemum, and when cut keep in good condition longer than any other of this type (illustrated on page ...)

We offer five colors, viz.: White (Pure white), Pink (Delicate shell-pink), Purple (Bright purple), Rose (Rich deep rose), Lavender (Deep lavender). 10c pkt. Collection of a packet each of the 5 colors, 45c.. Crego's Mixed. All colors. 10c per pkt.; 50c per 1/4 oz.

QUEEN OF THE MARKET ASTERS. A first-class early-flowering Aster, coming into flower in July, of branching habit; flowers of good size and borne on long



BALSAMS

stems, making them exceedingly valuable for cutting; 1 foot. Bright Rose, Crimson, Lavender, Pink, Purple, White. 10c pkt. Collection. One packet each of the 6 colors. 50c. Mixed Colors, 1/4 oz., 50c., pkt. 10c.

VICTORIA. Magnificent bedding or cutting variety, flowers large beautifully imbricated, 1 1/2 ft. high. Mixed colors. 10c pkt.

OSTRICH FEATHER. Magnificent, resembling the Comet, flowers of immense size of loosely formed petals, equaling the best Japanese Crysanthemums. White or pink. Mixed 10c pkt.

HEART OF FRANCE ASTER. This recent introduction is the largest flowering of the very dark red sorts; plants grow about 24 inches high, nicely branched, bearing in September their large, rich, deep ruby-red flowers on long, strong stems; a fine, dark variety. 15c pkt.

PERENNIAL. Single, hardy. Does well in any garden soil. If sown early will flower in early season. 10 pkt.

BABY'S BREATH. See Gypsophila.

BACHELOR'S BUTTON (See Centaurea Cyanus). Mixed 5 double blue. 5c pkt.

BALLOON VINE (Love-in-a-Puff) Rapid growing annual climber, white flowers, seed vessels look like miniature balloons. 5c pkt.

BALSAMS (Lady Slipper) Double, camellia flowered type, an old favorite, gorgeous brilliant colored, double flowers in great profusion, easily cultivated, 2 ft. high. Double, mixed each 5c; white 5c; pink 5c pkt.

BAPTISIA (False Indigo) Beautiful, hardy, perennial, pea-shaped flowers on spikes 6 inches long, bright blue 2 1/2 ft. 10c pkt.

BEGONIAS. Fine bedding variety, equal to geraniums, sturdy growth, 1 ft. high, forming dense bushes completely covered with flowers from May until frost. Unequalled as pot-plants for winter flowering and will remain in bloom the entire year.

Easily raised from seed. Double mixed 25c single mixed 15c.

TUBEROUS ROOTED BEGONIAS. Plants of great value for summer decoration or window gardening, bloom first season from seed if sown in February, transplanted as soon as weather permits, produce flowers the entire summer. In bulbs only.

ORNAMENTAL LEAVED BEGONIAS. Beautiful, variegated foliage. Mixed 25c.

BELLIS (or English Daisy. Perennial) Double Daisy, very handsome spring flowering plant. 10c pkt.

BRACHYCOME (or Swan River Daisy) Dwarf, annual, profuse bloomer, pretty blue or white flowers. 5c pkt.

CALCEOLARIA (Lady's Slipper) Ornamental plant with mass of beautiful pocket-like flowers, blooms early and very fine for decorating green-house or conservatory. 25c pkt.

CALENDULA (Pot Marigold) Very showy, free-flowering until frost, hardy annual, grows in any good soil, fine for beds or mixed borders, fine for pot culture, height 1 ft.

Meteor. Large double yellow, striped with orange. 5c.

Orange King. Large double orange red flowers. 5c.

Lemon Queen. Light yellow. 5c.

Mixed. Per pkt. 5c.

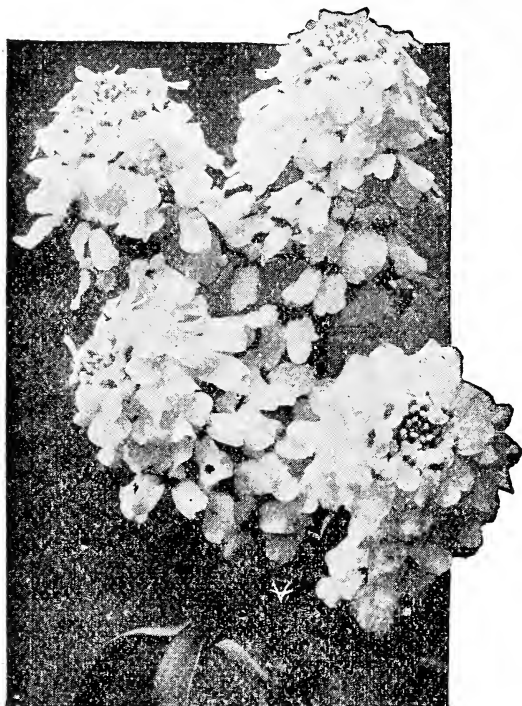
CALLIOPSIS (See Coreopsis) Showy, free-flowering annual, blooms all summer, fine for cutting and massing. Mixed colors 5c pkt.



CALENDULA

Golden Wave (Drummondii) Large golden yellow with brown center, fine for borders. 5c.

CAMPANULA (Bellflower) Favorite, hardy herbaceous with great profusion of bell flowers, thrives in light rich soil.



CANDYTUFT

Carpatica. Blue and white, bloom the whole season, 6 inches. 5c.

Persicifolia Grandiflora. Fine hardy bell flowers 2 to 3 ft. blue or white. Mixed. 10c.

CANARY-BIRD VINE (*Tropaeolum Canariense*) Handsome annual, rapid climber, charming little canary-colored blossoms bearing a fancied resemblance to a bird with wings half expanded. 5c.

CANDYTUFT (*Iberis*) A great favorite, fine for cutting, looks best in beds or masses. Sow in spring, will bloom until frost, very hardy, easily cultivated. Single plants look well and bloom profusely, 1 ft.

Carmine. 5c.

White. 5c.

Crimson. 5c.

Empress. A complete mass of pure white flowers. 10c.

White Rocket. 5c.

White Hyacinth. Flowered. 5c.

Mixed Colors. 5c.

Perennial Mixed. 10c.

CANNA (*Indian Shot*) Without exception one of the handsomest bedding plants. Soak the seeds in warm water until they show evidence of swelling. When the second leaf is out pot singly and keep under glass until proper season for planting out. Plants only.

CANTERBURY BELL (*Campanula Media*) Medium (*Single Canterbury Bells*). The old-fashioned sort with beautiful, large bell-shaped blossoms; we offer four distinct colors and mixed, as follows: Dark Blue, Light Blue, Rose, White. 10c pkt. A packet of each of the four colors, 30c. Single. Mixed. 5c pkt. All the double-flowering medium varieties, 1/4 oz., 50c., pkt. 10c.

Cup and Saucer (*Calycanthema*)

Rose Pink (Delicate rosy-pink), Blue (A fine clear shade), White (Pure white), Finest Mixed (All colors of the Cup and Saucer type. 1/4 oz., 60c. pkt. 10.

CARNATION (*See Dianthus*) Great favorite for their delicious fragrance and richness of color indispensable for winter or summer culture.

Marguerite Carnations. Very popular, as they begin flowering a few weeks from time of sowing, half dwarf, strong, requiring no support, produce long, strong stems, abundant large double beautifully fringed, highly-scented flowers. Pink, White, Red Yellow. 10c pkt.

Mixed Colors. 10c.

CASTOR OIL BEAN (*See Ricinus*).

CELOSIA CRISTATA or *Cockscomb* Varieties Free-blooming annuals, plant in light soil not too rich, grand for border and fine for pots. (2 1/2 to 3 feet.) These stately plants are considered among the most ornamental and should not be omitted in any garden. Form pyramidal bushes branching out in candelabra shape, the numerous massive plumes resemble ostrich feathers, wave gracefully above the foliage.

Empress. Combs of Colossal size known to measure 45 inches from tip to tip; rich crimson. 10c.

Glasgow Prize. Dark Crimson. 10c.

Dwarf. 8 inches high, sometimes measure 2 ft. across. 10c. Mixed 5c.

CELOSIA PLUMOSA (*Feathered Cockscomb*) Crimson, white, yellow, mixed. 5c pkt.

CELOSIA CHILDSI (*The Chinese Woolflower*) Plants grow two to three feet high, the bloom starting early with a central head, round and globular, which often reaches the immense size of two feet in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom



BACHELOR'S BUTTON



CARNATION

mixed with fresh green foliage, so that a plant looks like an immense bouquet splendidly arranged and set in the ground. Blooms until hit by frost. A deep, rich dark crimson-scarlet. 10c pkt.

Mixed. 5c.

CENTAUREA (Or Batchelor Button). under this name is included the popular annuals like Corn Flower, Blue Bottle, Ragged Sailor, Sweet Sultans, etc. Great favorites, fine for cut flowers; white-leaved sorts, or Dusty Millers are largely used for bedding, vases, etc.

Sweet Sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will stand for several days in good condition, of easy culture. Mixed colors. 5c. Named colors. 10c.

Giant Sweet Sultans (Centaurea Oderata) or Giant Cornflowers, easy to cultivate, flowers 2 to 4 inches in diameter, very graceful, sweet-scented.

Corn Flower (Centaurea Cyranus) Double blue, pink, white, mixed, 5c.

Gymnocarpa. Fine cut silvery foliage. 10c. pkt.

Candidissima. Broad cut silvery foliage. 5c pkt.

CHRYSANTHEMUMS. Annual sorts, showy, effective garden favorites. Dbl. mixed. 10c pkt. sgl. mixed. 10c pkt.

CINERARIA. Seed may be sown from May to September in succession. Where only one sowing is made July should be preferred. Cinerarias grow so freely that the seedling may go straight from seed-pans to thumb-pots. For transplanting, plant in a cold frame facing north, if possible. When pots become full of roots shift into larger ones until the flowering size is reached.

Dwarf Mixed. 25c per pkt.

Tall Mixed. 25c per pkt.

Stellata. (Star Cineraria) A charming variety with large spreading panicles of starry flowers. Same colors as the common Cineraria. The grace and elegance of the plant and flowers make them very effective for house or conservatory decoration; especially fine for church decoration and very useful for cutting. 35c.

CLARKIA. This pretty and easily grown annual has been much improved in recent years, and the varieties offered below are now seen as cut flowers in most of the large cities of Europe; they do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut. Elegans Double Mixed. A fine mixture containing all the colors. 10c pkt.

CLEMATIS. Rapid-growing climber, fine for arbors and verandas. Seeds are slow to germinate, and should be soaked in warm water 24 hours; hardy perennial mixed colors. 10c pkt.

LIANTHUS (Australian Glory Pea) Beautiful, tender, perennial shrub with clusters of brilliant pea-shaped flowers, 3 inches in length, with large black blotch for center. 10c pkt.

COBAEA (Cups and Saucers Vine) A rapid climber, fine for trellises, arbors, etc., clings to any rough surface. Place seeds in the ground edgewise and cover with light soil.

Purple. 10c pkt., pure white., 10c pkt.

COLEUS (Flame Nettle) An attractive foliage plant for house or garden, very interesting to grow from seed, easily raised; sow in March or April. 10c pkt.

CONVOLVULUS (Morning glory) Climbing varieties, very popular and one of the most free-flowering, rapid-growing plants in cultivation; doing well in almost any situation, with beautiful brilliant flowers; annuals, 15 ft. Mixed colors 15c oz. 5c pkt.

COREOPSIS (Perennial) (See Calliopsis) A very fine hardy plant with large, showy bright, yellow flowers, produced in great abundance from June until frost, especially fine for cut flowers having long stems



COSMOS

and lasting in good condition a week or more. These grow from seed, flowering the first year if sown early. 5c pkt.

COSMOS. Beautiful autumn-blooming plant, producing thousands of beautiful flowers in pure white, pink and crimson shades; fine for autumn decoration when other flowers are scarce. Sow in spring in open ground when danger of frost is over, or may be started under cover and transplanted. Set about 18 inches apart in rows or in masses in beds. When about a ft. high pinch the tops out to induce a bushy growth, 2½ to 4 ft. in height.



CYPRESS VINE

Crimson. Rich and deep. 5c.

Light Pink. A popular color. 5c.

Pure White. 5c.

Mixed Mammoth Perfection. 5c pkt.

Giant Pink, Lady Lenox. This is the latest development in this popular autumn flower, bears gigantic flowers, with wide, overlapping petals of splendid substance, making a perfectly circular flower, which is borne on very long stems; in color a beautiful deep rosy pink. 5c pkt.

Giant White Lady Lenox. The white-flowered form of the above. 5c pkt.

Early Colossal or Midsummer

Giant Cosmos. Mixed. All colors. 5c pkt.

CUCURBITA (See Gourd).

CYCLAMEN. Charming plant with richly colored foliage, fragrant flowers. Great favorites in winter or spring. Sow in spring or autumn.

Persicum. Choicest mixed. 15c pkt.

CYPRESS VINE (*Ipomaea Quamoclit*) A favorite summer climbing annual, with feathery foliage and star-shaped flowers borne in clusters.

White. 5c pkt.

Scarlet. 5c pkt.

Mixed Colors. 5c pkt.

DAHLIA. One of the best late summer and autumn flowering sorts, very popular. The double sorts will bloom first season if sown early. Single will bloom first season if sown in the open ground. Many prefer the single sorts to Cosmos, having the larger variety of colors and longer season of bloom.

Double, finest mixed. 10c.

Single, finest mixed. 10c.

DATURA (Trumpet Flower) Ornamental annuals, large showy flowers; 2 to 3 ft. Dbl. and sngl. 10c pkt.

DELPHINIUM (Perennial Larkspur). One of the handsomest hardiest hardy perennials, splendid flowers and curiously cut leaves; for permanent beds and borders they are indispensable.

Zalil (Hardy Yellow Larkspur) Produces very long spikes of 40 to 50 sulphur yellow blossoms, each 1 inch in diameter; flowers from June to August, plant thrifty and bushy; 3 to 4 ft. 10c pkt.

Formosum. Popular for groups, tall spikes of dark blue flowers with white eyes; 2 to 3 ft. 10c pkt.

Nudicaule. Large scarlet flower; 1½ ft. 10c pkt.

Belladonna. Clear Turquoise Blue. 10c. Choicest hybrids mixed. 10c.

DIANTHUS or PINKS. A magnificent sort embracing some of the most popular flowers in cultivation, of great variety and brilliancy with profusion of bloom. The sorts classed as annuals may be sown out-of-doors when danger of frost is past. In a few weeks time they are a mass of bloom continuing until frost; 1 ft.

Double Annuals.

Laciniatus Fl. Pl. Large double showy flower with fringed edges. Great variety of colors. 10c. pkt.

Chinensis Fl. Pl. China or Indian Pink) Mixed colors. 10c.

Heddewigi Fl. Pl. (Japan Pink) Double mixed. 10c.

Snowball. Double white, fringed, very fine. 5c pkt.

Imperial Fl. Pl. (Double Imperial Pink) mixed. 10c.

Salmon King. A double flowering variety, finely fringed flowers of a brilliant salmon color and changing as they fade to a salmon-rose; charming for beds or borders. 10c pkt.



DIANTHUS (Sweet William)



COREOPSIS

Single Annuals. All single sorts have large flowers 2 to 4 inches in diameter, fine for beds or borders; 1 ft. high.

Nobilis (Royal Pink) Beautifully fringed, colors run from white to dark red 10c.

Heddewigi (Japan Pink). 10c.

Hardy Garden Pinks. The varieties are well adapted for beds and borders; delightful, refreshing, spicy odor, should be in every garden where cut flowers are wanted.

Semperflorens (Ever-blooming hardy garden Pinks) Very beautiful, sweet-scented, double semi-double and single in great diversity of colors, mixed colors. 10c. (See Carnation) Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable for the green-house in winter and the garden in summer. The Marguerite is one of the best for summer flowering.

DIDISCUS. Very pretty annual, blooms profusely from July to November, pale lavender blossoms, excellent for cutting. 15c pkt.

DIGITALIS (Foxglove) Handsome ornamental hardy perennial plant, easily grown, fine for shrubberies; 3 ft. Mixed colors. 10c pkt.

DIMORPHOTHECA (African Golden Daisy). Aurantiaca Hybrida. Beautiful new hybrids of the African Golden Daisy, and similar in habit to the parent; flowers equally as large, but varying in color from the purest white through the various shades of yellow and orange to rich salmon shades, many being zoned with several of these colors around the black disc. $\frac{1}{4}$ oz., 50 cts. 10c pkt.

DOLICHOS (Hyacinth Bean) Rapid annual climber with large clusters of handsome flowers producing later in place of flowers, pods of a deep purple, very ornamental. Purple 5c. Mixed colors 10c pkt.

DRACAENA (Dragon Plant) Fine ornamental leaved plant. Mixed colors. 10c pkt.

ECHINOCYSTIS (Wild Cucumber Vine) Quickest growing vine known, fine for covering trellises, fences, etc. 5c pkt.

ENGLISH DAISY (Bellis Perennis) A favorite almost hardy perennial blooms from early spring until late in summer, easily raised from seed, 4 inches high. Dbl. mixed, finest quality 10c. White or pink 10c.

ERYNGIUM (Sea Holly) Handsome ornamental, hardy plant 2 to 3 ft. high. Fine for drying for winter bouquets. 15c pkt.

ESCHSCHOLTZIA (California Poppy) Fine annual for beds, border or masses, bloom until frost; 1 ft. Sgl. mixed 5c pkt. dbl. mixed 5c pkt.

Golden West. Bright buttery yellow with orange centre. 5c pkt.

Mandarin. Inner side of the petals rich orange, outside brilliant scarlet. 5c pkt.

EUPHORBIA (Snow on the Mountain) Strong, tall-growing annual, attractive foliage. 10c pkt.

FORGET-ME-NOT (See Myosotis). 5c.

FOUR O'CLOCK (Mirabilis).

FOX GLOVE (See Digitalis)

Marvel of Peru, or Four O'Clocks (Mirabilis Jalapa) A well-known, handsome free-flowering garden favorite; does well everywhere; give each plant 12 to 18 inches of room. Fine mixed colors; 2 ft. 5c pkt.

GAILLARDIA (Blanket Flower) Annual Varieties. Splendid showy annuals, remarkable for the profusion, size, and brilliancy of their flowers, continuing in bloom from early summer until November, excellent for beds, borders, or for cutting; should be sown where they are to bloom; $1\frac{1}{2}$ ft.

Picta. Crimson and orange. 5c pkt.

Picta Mixed. Single sorts; fine colors. 5c pkt.

Double-Flowering Mixed. A charming, profuse, double-flowering strain; beautiful mixed colors. 10c pkt.

Hardy Perennial Varieties. 5c.

GERANIUM (Pelargonium) Double mixed fine color. 15c pkt.

GLOBE AMARANTH (Gomphrena) Known as Bachelor's Buttons, fine bedding plant, flowers can be dried and be used in winter bouquets; 2 ft. mixed colors. 5c pkt.

GLOXINIA. A superb greenhouse sort with magnificent rich colored flowers; do best in equal mixture of peat, loam and sand, mixed colors. 25c pkt.

GOETIA. An attractive, hardy annual profuse, showy flowers of varied colors; $1\frac{1}{2}$ ft. Mixed colors. 10c pkt.

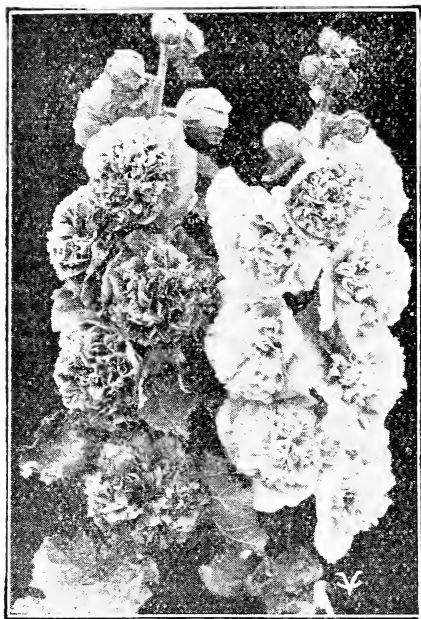
GOURDS ORNAMENTAL (Cucurbita) Rapid-growing, annual climbers, ornamental foliage; 15 to 20 ft. Mixed colors. 5c pkt.

GRASSES, ORNAMENTAL. These serve the double purpose of rendering mixed flower-beds on borders attractive in summer and for use in a dried state in winter bouquets, for large beds on groups on lawns, nothing gives a finer effect; largely used in public parks.

Briza Maxima. Fine for grass bouquets. 5c.

Coix Lachrymae (Job's Tears) Broad, cornlike leaves, annual. 5c.

Erianthus Ravennae (Hardy Pampas) Beautiful perennial. 5c.

**HOLLYHOCK**

Gynierium Argenteum (Pampas Grass) Perennial, blooms the second season. 10c.

Stipa Pennata (Feather Grass) Perennial, beautiful white, delicate begins to bloom the second season; 2 ft. 5c.

GYP SOPHILA (Baby's Breath) Pretty free-flowering elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

Elegans Alba Grandiflora. 5c.

Paniculata. White flower, fine for bouquets; one of the favorite hardy perennials; blooms first year if sown early; 2 feet. 5c pkt.

HELIANTHUS (See Sunflower) Single and Double mixed. 5c pkt.

HELICHRYSUM (Straw Flower)

Monstrosum Fl. Pl. The great demand for this popular Everlasting has induced us to show them in colors this season. Crimson (very rich), Fireball (bright red), Goldenball (Golden yellow), Rose Carmine (Rich and glossy), Silver Ball (Glistening white), Violet (very rich color), Mixed (all colors). 10c pkt.

HELIOTROPE (Cherry Pie) Half-hardy perennial, flowering the whole season, very fragrant. Can also be trained as a greenhouse climber. Mixed colors. 10c.

HIBISCUS (Marshmallow) Showy, perennial plant with large beautiful colored flowers; 1½ ft. Mixed colors. 10c.

HOLLYHOCK. One of the most majestic of hardy plants, and a clump or line in any garden gives an effect not attainable with any other plant. For planting among shrubbery or forming a background for other flowers, it is without equal. Seed sown any time before midsummer will produce fine plants for flowering next year.

Double Varieties. The seed offered under this head has been saved from the finest double flowers only and is sure to produce satisfactory results. Maroon Rose, Red, Salmon-Rose, White, Yellow. 10c pkt. Extra Choice Double Mixed 40c per ¼ oz.

Extra Choice Double Mixed. 40c. per ¼ oz.

Single Varieties. Mixed 10c pkt.

HONESTY (Moonwort Satin Flower) Hardy biennial, with silvery seed pouches, very attractive; 2 ft. 10c.

HUMULUS (Japanese Hop) Ornamental, fast-growing climber resembling the common hop. 10c.

HUNNEMANNIA (Giant Yellow Tulip Poppy, or Bush Eschscholtzia) *Fumariaefolia*. This is by far the best of the poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large but-tercup-yellow poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful feathery glaucous foliage. 5c.

IPOMOEA. Climbers of very rapid growth, beautiful, varied flowers; for covering walls, arbors, stumps, etc.

Quamoclit Hybrida (Cardinal Climbers). 10c pkt.

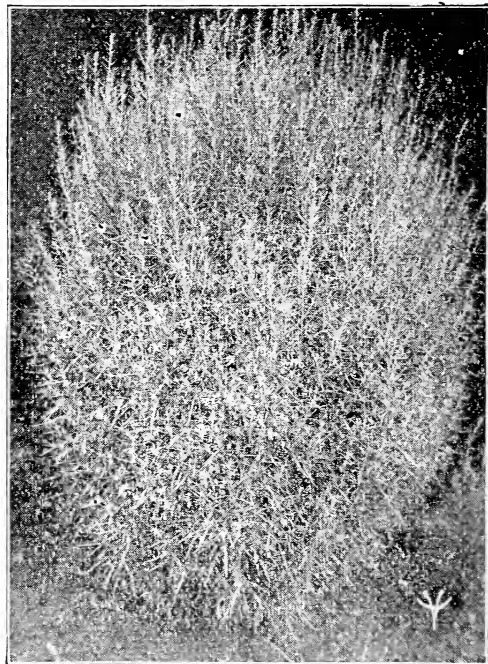
IMPERIALIS JAPANESE (Japanese Morning Glory) Largest and handsomest of all Morning Glories. 5c pkt.

Bona Nox (Evening Glory) Violet, large fragrant flowers, expanding in the evening. 5c.

Rubra Coerulea (Heavenly Blue) Bright sky blue. 10c.

Grandiflora (Moon Flower) Blooms at night and on dull days, pure white flowers. 5 to 6 inches in diameter, rapid climber. 10c.

IMPATIENS (Sultan's or Zanzibar Balsam). Charming plants for the decoration of the greenhouse or dinner table, producing bright, waxy-looking flowers profusely and almost continuously. The young seedlings should be carefully handled, as they are exceedingly brittle at the outset.

**KOCHIA**

Sultani. Flowers of brilliant rosy-scarlet color. 25c pkt.

JOB'S TEARS (Coix Lachrymae) see ornamental grasses.

KENILWORTH IVY (See Linaria).

KOCHIA (Summer Cypress, Belvedere) Burning Bush. *Trichophylla*. An easily-grown annual, which, sown thinly in spring, soon forms a cypress-like hedge of the most lively green and of perfect symmetry; by midsummer it attains a height of about 3 feet, and late in the autumn the whole plant becomes a deep red, a splendid plant to divide the vegetable from the flower garden, or for forming a hedge for the summer for any purpose. $\frac{1}{4}$ oz. 20c. pkt. 5c.



LARKSPUR

LADY SLIPPER (See Calceolaria)

LANTANA. One of the most desirable half-hardy perennials, constantly in bloom. verberna-like heads of orange, white, rose and other colors; 2 to 3 ft. Mixed colors 10c.

LARKSPUR (Annual) These handsome Larkspurs are very effective in borders and planted amongst shrubs. The graceful spikes of bloom are much valued for vases. They continue long in bloom. The Emperor, Hyacinth-flowered and Branching varieties bloom a little later than the Stock-flowered. Sow seed in the open border either in early spring or late fall so germination may take place very early in the spring.

Stock Flowered. Mixed, all colors. 5c pkt.

Giant Hyacinth-flowered Mixed, 3 ft. Derives its name from the striking resemblance of the flowers to a double Hyacinth. Delicate colors. 5c pkt.

Tall Rocket Mixed. 5c pkt.

Dwarf Rocket Mixed. 5c pkt.

Emperor Mixed. 5c pkt.

LATHYRUS (Everlasting or Hardy Sweet Pea) Free-flowering hardy perennial climber continually in bloom. Mixed colors, 15c pkt. White 10c pkt. Pink 10c pkt.

LAVENDER (*Lavandula Vera*) Well-known, sweet-scented, hardy perennial; 3 ft. 10c pkt.

LINARIA (Kenilworth Ivy) Charming small, hardy perennial, trailing plant. 10c pkt.

LINUM or FLAX (Scarlet Flax. Brilliant crimson flowers, an inch or more across, and a continuous bloomer. Annual.

Grows $1\frac{1}{2}$ to 2 feet high. 10c Pkt. Perennial Varieties Mixed. 5c pkt.

LUPINUS (Lupine) Annual Sorts. Free-flowering, easily-grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; valuable for mixed borders, beds and for cutting; prefers a little shade; 2 ft. Rich Blue, Sky Blue, Rose, White. 10c pkt. Annual Mixed. All colors, 5c pkt.

Polyphyllus Sorts. Effective hardy perennials, succeeding in any good garden soil; blooms in May and June, $\frac{3}{4}$ ft. Rose, White, Blue 10c pkt. Mixed. All colors 5c pkt.

LOBELIA. The following choice varieties of this popular and beautiful flowering plant will be found most desirable for pot culture, edgings, hanging-baskets, etc. blooming profusely from June to November. *Cardinalis* is one of the finest native hardy perennials.

Crystal Palace Compacta. Rich deep blue; dark foliage; the finest dark blue for bedding. 10c pkt.

Gracilis. Light blue; light green foliage; trailing. 10c pkt.

Speciosa. Ultramarine-blue; dark leaved; trailing. 10c pkt.

Mixed Compacta Varieties. All colors. 10c pkt.

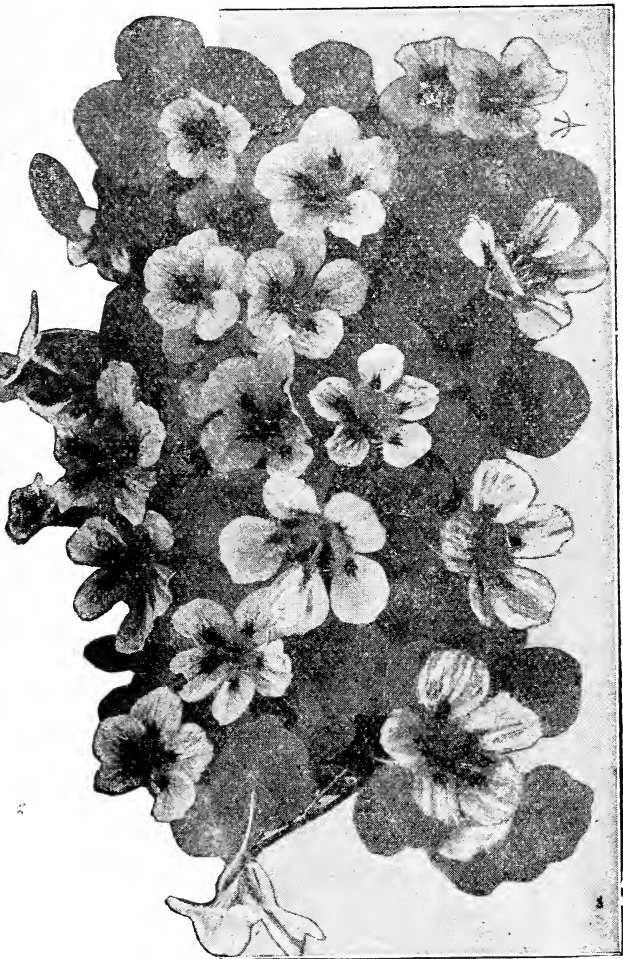
Cardinalis (Cardinal Flower). A native variety, with spikes of brilliant scarlet flowers; fine hardy border plant; 3 ft. 15c pkt.

LYCHNIS. Handsome hardy perennial, easy culture, fine for beds and borders. Mixed colors. 10c pkt.

MARIGOLDS (*Tagetes*) The African and French Marigolds are valuable for their flowers in late summer and autumn and can be grown to advantage in little clumps, with other plants, in the front of shrubbery or in the garden border. The African varieties are the taller in growth, and produce large self-colored blossoms. The French varieties are smaller, some of them being elegantly striped and spotted. The dwarf-growing kinds make extremely handsome borders, being neat compact plants, and remaining in full bloom until killed by frost. Seeds can be sown in the open border, or earlier, in a coldframe, and the young plants transplanted late in the spring to where they are to remain. They succeed best in a light soil, with full exposure to the sun. Annual.



MARIGOLD



NASTURTIUMS

AFRICAN MARIGOLDS

Pride of the Garden. The immense flowers of this grand variety are densely double, and of a beautiful golden yellow color. A notable feature is the compact, dwarf habit of the plant, which forms dense bushes fifteen to eighteen inches high and two feet across. 10c pkt.

Prince of Orange. Flowers very large, ten to fourteen inches in circumference, extremely double and quilled like a Dahlia; golden yellow. Plants 3 feet high. 5c pkt.

Lemon Queen. Large lemon-colored flowers, fine for cutting. 5c pkt.

Mixed Varieties. 5c Pkt.

FRENCH MARIGOLDS

Gold Margin. Double. Flowers velvety maroon, margined with gold. Plant only eight inches high, bushy, compact, and free-flowering. 5c pkt.

Dwarf Gold Striped. Double rich brown, striped golden yellow. 5c pkt.

Dwarf Marigold Little Brownie or Legion of Honor. A charming single-flowered plant, about six inches high. Very effective in masses or borders. Begins flowering extremely early, commencing in June. Color a brilliant gold, blotched with maroon. 5c pkt.

Signata Pumila. Sunshine Marigold. One of the most beautiful plants for fall color, about eighteen inches high, very bushy habit, and each slender branch, which

press close to the main stem, crowned by a delicate golden flower with orange center forming a dense globular mass. Charming in a border or alone. 5c pkt.

Dwarf Double Varieties Mixed. 5c Pkt.

Tall Varieties Mixed. 5c pkt.

MARVEL OF PERU or FOUR O'CLOCK.

The flowers of this old-time favorite open about four o'clock in the afternoon and fade the next morning. Two feet high, with bright foliage and fragrant flowers of desirable colors. Set plants two feet apart. Makes a nice hedge if set a foot apart. Seed should be planted in the open ground where plants are desired. The roots may be taken up in the autumn and preserved through the winter for spring planting, in the same manner as Dahlias. Marvel of Peru. Mixed Colors. 5c pkt.

MATRICARIA (Feverfew) Free-flowering, blooms until frost, hardy annual; 18 inches. Dbl. white 10c pkt.

MAURANDIA. Beautiful, slender-growing climber, half-hardy perennial; 10 ft. Mixed colors 10c pkt.

MESEMBRYANTHEMUM (Ice Plant)

Dwarf trailing plant of great beauty, blooming the whole summer, half-hardy annual; 6 inches. 5c pkt.

MIGNONETTE (Reseda) (6 to 12 inches)

No garden is complete without this fragrant plant of unassuming mien. One of the principal uses is for cutting purposes and combining in bouquets with other more pretentious blossoms without its delicate odor.

GOLDEN QUEEN. Yellow. 5c pkt. . . .

GOLIATH. Foliage rich green, with bright red flowers. Flower stalks tall and strong, spikes often 7 in. long by 2 in. in diameter. 10c pkt.

GIANT WHITE PEARL. Flowers silvery-white. 5c pkt.

MACHET. It is the best Mignonette for all purposes either outside or inside. It is an ever-bloomer, the flowers lasting until late in the fall. 10c pkt.

MIXED. Many shades and types. 5c pkt.

RUBIN, red. 10c pkt.

MIMOSA (Sensitive Plant) A curious, interesting annual with pinkish-white flowers, leaves low and droop when touched or shaken. 10c pkt.

MIMULUS (Musk Plant) Very showy, profuse-flowering plant, half-hardy perennial, blooms first year if sown early; 1 ft. 15c pkt.

Tigrinus (Monkey Flower) Spotted variety. 15c pkt.

Moschatus (Musk Plant) Fine for hanging baskets, small yellow flowers, fragrant foliage. 15c pkt.

MIRIBILIS (See Four o'clock). 5c pkt. . .

MOMORDICA (Balsam Pear) Very curious climber, ornamental foliage, fruit golden yellow, opens when ripe, showing the seed and its beautiful carmine interior, fine for rock-work, etc., annual 10 ft. 5c pkt.

MORNING GLORY (See Convolvulus).

MUSK PLANT (See Mimulus).

MYOSOTIS or FORGET-ME-NOT. Charming, low-growing plants, the bright flowers covering the plants in late spring. Seed sown at any time up to mid-summer will produce plants that will bloom the following spring. Prefer moist shady situation. The Alpestris varieties are very free flowering; they are practically biennial.

ALPESTRIS. Blue. Grows six inches high. Blooms in April. 10c pkt.

ALPESTRIS ALBA. White. Grows six inches high. Good for borders. 10c pkt.

ALPESTRIS ROSEA. Light pink. Grows six inches high. 15c pkt.

ALPESTRIS, INDIGO BLUE. New, very fine. A deep indigo blue. 10c pkt.
ALPESTRIS, VICTORIA. Sky blue, dwarf. Plants globular. 10c pkt.
PALUSTRIS (True Forget-me-not).. Blue, with yellow eye. Perennial. 15c pkt.
MIXED VARIETIES. Seeds of the above varieties mixed. 5c pkt.

NASTURTIUMS (Tropaeolum) For ease of culture, duration of bloom, brilliancy of color and general all around purposes nothing excels this popular variety. Plant in moderately good soil well drained, sunny position, quick growing and bloom profusely until hard frost comes.

Dwarf Nasturtiums. Any of the following named varieties, packet 15c.: Yellow and Maroon Blanches, Crimon, Rose, Creamy White, Maroon, Mixed Colors.

Climbing Nasturtiums. Any of the following named varieties, packet, 10c.: Maroon, Salmony Rose, Scarlet, Orange, Creamy White, Mixed Colors.

NEMESIA (Large-flowering Hybrids.) A very pretty annual, which does best in a cool position; the plants grow about a foot high, and the orchid-like flowers are very varied in color, including rose, yellow, blue, orange, etc. 10 pkt.

NICOTIANA

Affinis. One of the best Nicotianas we have ever grown. The plant attains the height of three feet and is covered with deliciously-scented, large, white flowers that open in their full glory in the evening and early morning. Easily grown from seed, and cuttings rooted in September will bloom freely in the winter. $\frac{1}{4}$ oz. 35c. pkt. 10c.

Sanderae. The whole plant, from base to summit, is laden with flowers of an intensely glowing rosy carmine color, making it incomparably beautiful and charming. Easily grown. 10c pkt.

NIGELLA (Love in a Mist, or Devil in the Bush).

Damascena. A compact, free-flowering plant, with finely cut foliage, curious looking flowers and seedpods; of easy culture, growing in any garden soil; hardy annuals; blue and white mixed; 1 ft. 5c pkt.

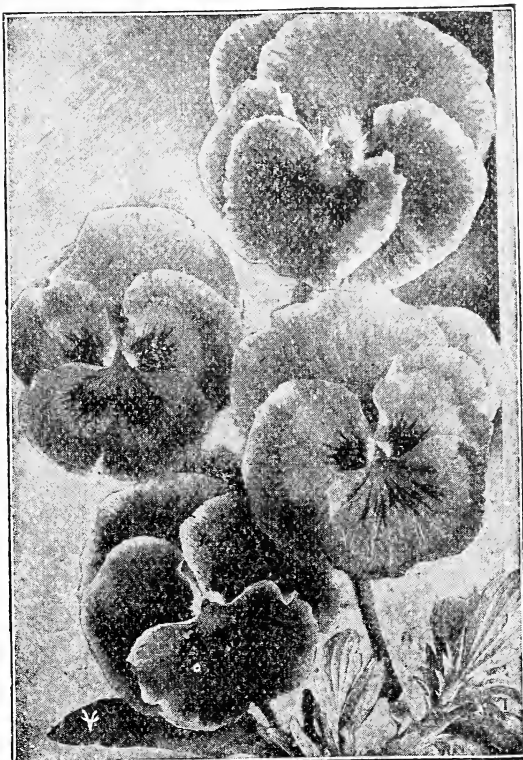
Miss Jekyll. A lovely variety with cornflower-blue blossoms, splendid for cutting. 10c pkt.

ORNAMENTAL GRASSES (See Grasses).

PANSIES (Giant Flowering) The Pansy gives an abundance of bloom until after severe frosts, endures our hard winters with safety, and greets us in the early spring with a profusion of bright blossoms. Pansies are at their best during the cool, moist weather of spring and fall. Seed sown in the open ground in May or June will give fine blooms in late summer and autumn, and a good crop of flowers the following season if the plants are pinched back in early spring. Seed sown in mid-summer, where it can be shaded and watered will produce plants large enough to winter nicely and come into full bloom in early spring. Young plants give the largest flowers. Old, worn out plants should be replaced by young, vigorous ones.

Royal Purple, Bronze, White, King of the Blacks, Cardinal, Ultramarine Blue, Pure Yellow, Yellow with Black Eye, Light Blue, Lavender, Wine Color, Mixed Colors. 10c pkt.

Giant Trimardeau Mixture. A wonderful mixture of extra large flowering pansies conspicuous for different shades of yellow and bronze.



PANSY

Mastepriece Mixture. A special mixture of the Giant Frilled Pansies. A mixture of the finest of a remarkable type of Giant Flowering Pansies, the petals being beautifully waved or frilled. These extremely beautiful flowers come in a wide variety of colors, ranging from white to the deepest maroon or black, creamy yellow to orange, dainty rose to brilliant crimson. $\frac{1}{8}$ oz. \$1.00. pkt. 30c.

Bugnots Mixture. Another splendid mixture of superb blotched varieties in a fine assortment of colors. $\frac{1}{8}$ oz. \$1.00 pkt. 30c.

Violas or Tufted Pansies. While the Pansy Proper is a spring flower, violas flower throughout the entire season. Seeds sown in spring produce flowering plants by June which bloom until frost. Splendid mixed colors, fine varieties. 10c pkt.

Viola Odorata. Sweet scented violet. 10c.

PASSIFLORA (Passion Flower) Fine climbing plant for garden or greenhouse with a profusion of attractive flowers; mixed. 10c.

PENTSTEMON (Beard-Tongue) One of the most beautiful attractive herbaceous plants; bearing long graceful spikes of rich colored flowers; if sown early and transplanted in May will bloom in July until frost, half-hardy perennial; 2 ft. Mixed colors. 10c.

PERILLA (Nankinensis) An elegant dark leaved bedding plant, easily grown from seed and not as sensitive to cold as the Coleus. The foliage is a very dark, rich, bronzy purple. Plants grow about eighteen inches in height. 10c pkt.

PETUNIA (Single-Flowered Bedding) Bedding varieties are unsurpassed for massing. They will make a most showy bed, giving a profusion of flowers from early summer until severe frost.

**PENTSTEMON**

Blotched and Striped, very symmetrically marked. 10c pkt.

Rosy Morn. Dainty soft carmine-pink; white throat; fine for border. 10c pkt.

Snowball. Satiny-white flowers; blooms throughout the season. 10c pkt.

Extra Choice Mixed. Superb strain 10c

Fringed Giant. 20c pkt.

Giants of California. 35c pkt.

Double Mixed. 25c pkt.

PHLOX DRUMMONDI. Of all summer flowering annuals this variety is unquestionably one of the most brilliant and satisfactory. Seed may be sown in open ground after danger of frost is past and in a few weeks the beds or borders are all aglow with their brilliant coloring until cut down by the frost. For early flowering they should be started indoors.

Snow White, Shell Pink, Deep Rose, Bright Scarlet, Rich Crimson, Primrose, Soft Lilac, Choicest Mixed, Large-Flowering. 10c pkt.

Star Phlox (Star of Quedlinburg) Dwarf, pretty star-shaped flower. Mixed colors. 10c.

Hardy Perennial Phlox. All colors, mixed. 10c.

PHYSOSTEGIA (False Dragon Head) Virginica. One of the prettiest hardy perennials, and gaining in popularity as it becomes better known. It forms dense bushes, 3 to 4 feet high, bearing freely during the summer months spikes of delicate pink tubular flowers not unlike a gigantic heather. 10c.

PINKS (See Dianthus)

PLATYCODON (Balloon Flower, or Japanese Bellflower). One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery; easily raised from seed, which begins blooming in August if sown outdoors in April. 10c pkt.

POPPIES. An extremely popular brilliant flowering annual. Poppies should be sown where they are to remain, as they will not stand transplanting.

Single Annual Poppies. Shirleys selected strain. 5c pkt.

Oriental Poppy. Perennial, exceedingly showy, scarlet with black centre. 10c pkt.

Double Annual Poppies. Mixed colors. 5c.

Paeony Flowered. Large showy, double mixed colors. 5c.

Scarlet Single Flanders. 5c.

Oriental (Orange Scarlet). 10c.

Tulip Poppy (Red). 5c.

Iceland Poppy (Perennial) Mixed 10c.

PORTULACA (Sun Plant) Fine hardy annual, of easy culture, thrives best in rather rich light sandy loam and sunny situation, flowers of richest colors, blooming throughout the summer in great profusion, fine for beds, edging or rockwork; 6 inches. Sgl. mixed 5c. Dbl. mixed 10c.

PRIMULA. Charming beautiful Chinese Fringed Primrose, fine for winter or spring decorations. One of the most important winter-blooming pot plants, sow from March to May. Mixed colors 35c.

PRIMULA (Obconica Grandiflora) Ever-blooming. Mixed 25c.

PRIMULA POLYANTHUS (Perennial) 10c. pkt.

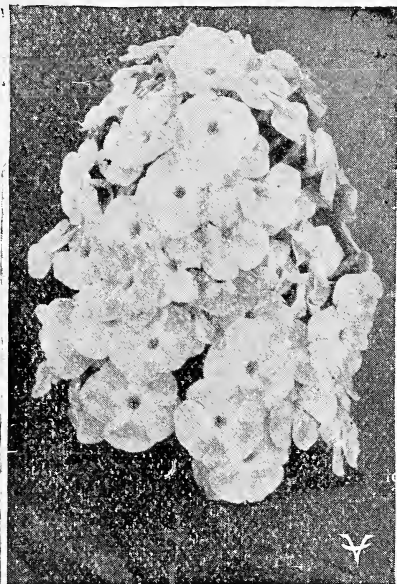
PYRETHRUM. Handsome herbaceous plants of easy culture so much used for bedding edging, etc.

AUREUM (Golden Feather) Yellow foliage. 5c pkt.

**ICELAND POPPY**

HYBRIDUM. Hardy perennial, bearing large Daisy or Cosmoslike flowers, ranging in color from white to deep red, with bright yellow centers; blooms in May and June, and again in the fall; and is one of the most graceful and long-lasting cut flowers. 10c pkt.

RESEDA (See Mignonette)



PHLOX DRUMMONDI

RHODANTHE (Swan River Everlasting) A charming annual; does well in a light rich soil and warm sheltered situation. Fine for pot culture, flowers everlasting. Mixed colors. 5c.

RICINUS (Caster Oil Bean) Ornamental plant of stately growth and picturesque flowers, brilliant colored fruit; fine for lawns or center plants for beds, mixed all colors. 5c.

ZANZIBARIENSIS. A distinct class, which surpasses in size and beauty all varieties. The plants attain great dimensions, presenting a splendid aspect with their gigantic leaves. The different varieties included in our mixture have light and dark green leaves and some of coppery-bronze, changing to dark green, with reddish ribs. The seeds are beautifully marked. 5c pkt.

SALPIGLOSSIS (Painted Tongue) One of the greatest favorites among annuals. Partly on account of its easy culture, but mostly for its beautiful, almost orchid-like flowers. Mixed sorts 5c pkt.

SALVIA (Flowering Sage) A favorite bedding plant, bearing long spikes of flowers in great profusion from July until frost, half-hardy perennial, blooms the first year from seed sown indoors and transplanted when weather permits.

Splendens (Scarlet Sage) Beautiful bright scarlet. 10c pkt.

"Bonfire." This is one of the finest of the Scarlet Sages, growing in a compact bush 2 feet high by 2 feet in diameter. Its erect spikes of brilliant scarlet flowers stand clear above the dark green foliage and completely cover the plant. It attracts immediate attention in the garden, and is one of the most effective and gorgeous plants in cultivation. 10c pkt.

Patens (Blue Sage). 15c.

SCABIOSA (Mourning Bride, Sweet Scabious, Pin-cushion Flower, etc.) The Annual Scabiosas are firm favorites by many of our customers. Seed can be sown any time in the spring after danger of frost is past. They grow about 2½ feet high, and come into bloom early in July, and continue without interruption until hard frost. The beautiful flowers in exquisite shades are borne on long stems, and when cut keep in perfect condition for the best part of a week. They make effective borders or beds, and no garden is complete without both the annual and perennial Scabiosas, especially where flowers are wanted for cutting. We offer 6 colors, as under:

Large - Flowering Annual. Lavender-blue, Crimson, Black Purple, Rose, White at 10c per pkt., Mixed at 5c pkt.

Hardy Perennial Scabiosas. (Caucasica (Blue Bonnet). One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in waterfi color soft lavender-blue; 3 ft. 10c pkt.

SCARLET RUNNER BEANS. Great favorite of England and continent of Europe, not only as an ornamental climber, but for the delicious edible beans which succeed the bright scarlet blossoms. 5c pkt. ½ pint, 15c.

SCHIZANTHUS (Butterfly or fringe flower) Splendid annual with a profusion of various colored flowers; fine for greenhouse decorations and flower garden, of easy culture. Mixed 15c pkt.

SHASTA DAISIES (Crysanthemum Leucanthemum). A splendid hardy perennial variety with flowers rarely less than 5 inches across, of the purest glistening white, with broad overlapping petals, and borne on long strong stems; a beautiful cut flower, remaining in good condition a week or more. 5c pkt.

SMILAX (Myrsiphyllum Asparagoides) In many respects the Smilax is the most useful, and certainly one of the most graceful climbers; for bouquets and floral decorations it is indispensable. Soak seed in warm water for 12 hours and plant in pots. A tender perennial; 10 ft. 10c pkt.

SOLANUM (Jerusalem Cherry) Very useful pot plant for winter decoration, dwarf branching habit, leaves small and oval



SCHIZANTHUS

shaped, bearing in great profusion bright scarlet globular berries. 10c pkt.

STOCKS (Cut-and-Come-Again 10-Week Stocks. Splendid perpetual-blooming class, sown in March or April they begin flowering in July, continuing till frost, and are especially valuable during September and October, when other flowers are scarce; they throw out numerous side branches, all bearing very double, fragrant flowers. White, Rose, Blood-red, Dark Blue, Creamy-Yellow, 10c per pkt. Finest Mixed, all colors 10 per pkt.

SWEET PEAS (How to grow sweet peas) The soil for Sweet Peas should be rich and deep. A good rich loam, with plenty of well-rotted manure in it, is the ideal soil for raising good plants that will produce plenty of blooms of good substance. Considerable benefit has been noted from



SWEET PEAS

the use of Mulford's Inoculating Culture. We can supply a special culture for Sweet Peas. Price, 35c per bottle, enough for any ordinary garden. They should be in a position fully exposed to the sunlight and air on both sides of the row.

Much depends upon the state of the weather as to when the seed may be sown out of doors; but they should be sown as early in the season as the ground can be worked, which is usually between the middle of March and the middle of April. It is best to make a trench or furrow about 6 inches deep, in the bottom of which sow the seed. Cover with about an inch of soil, pressing it down firmly. As soon as they are above ground thin out to 2 or 4 inches apart; when planted too close they do not attain their full development. They should be staked up either with branches of brush or stout stakes on which wire netting has been fastened. These should be at least 4 feet high, and 5 feet would be better. It is just as well to do the staking at the time of sowing.

During dry weather they should be watered thoroughly and frequently. The flowers should be cut as often as possible to

prevent the plants from running to seed, which would stop them from continuing in bloom.

SELECT GRANDIFLORA SWEET PEAS

Black Knight. Very deep maroon, shaded black.

Blanche Ferry. The popular pink and white.

Dorothy Eckford. Magnificent pure white.

Flora Norton. The clearest bright blue.

Helen Pierce. White, veined and marbled bright blue.

King Edward VII. The finest crimson-scarlet.

Lady Grisel Hamilton. A grand pale lavender.

Lord Nelson. The richest deep navy-blue.

Miss Willmot. Brilliant orange-pink; very large.

Prima Donna. A magnificent pure pink. Price. Any of the above, 5c per pkt., oz. 20c.

Grandiflora. Mixed. Ounce, 10c., $\frac{1}{4}$ lb. 35c; $\frac{1}{2}$ lb. 60c; lb. \$1.00.

SPENCER SWEET PEAS. The magnificent new Spencer Sweet Peas are rapidly displacing the older kinds. The plants make a vigorous growth and the flowers are extraordinarily large, being, when well grown, from two to two and one-half inches in diameter. In addition, the petals are beautifully waved or fluted, and in some of the newer Spencers the fluting is very pronounced. Practically the whole range of grandiflora varieties has now been duplicated in the Spencer type; but after careful trials we have selected the following list as embracing the Choicest of The Spencer Sweet Peas:

Appleblossom. Standard rose, showing veins of deeper rose. Wings light carmine; the whole color overspreads on primrose. 10c.

Aurora. Orange rose striped on white. 10c pkt.

Asta Ohn. Charming soft lavender tinted with mauve pink. Packet 10c; ounce 45c.

Barbara. Bright salmon orange with dark stems. 10c pkt.

Countess Spencer. Clear pink deepening somewhat towards the edge. 10c pkt.

Dobbie's Cream. Deep cream or primrose. 10c pkt.

Dobbie's Sun Proof Crimson. 10c.

Flora Norton Spencer. Bright blue 10c.

Florence Nightengale Lavender. 10c pkt.

Hercules. A rich pink flower, waved 15c pkt.

King Edward VII. Rich waved crimson. (25 seeds). 10c pkt.

King White. Produces gigantic flowers absolutely pure white. 10c pkt.

Maud Holmes. Red. 10c.

Mrs. Cuthbertson. Standard is light rose pink, wings white flushed pale rose pink. 10c pkt.

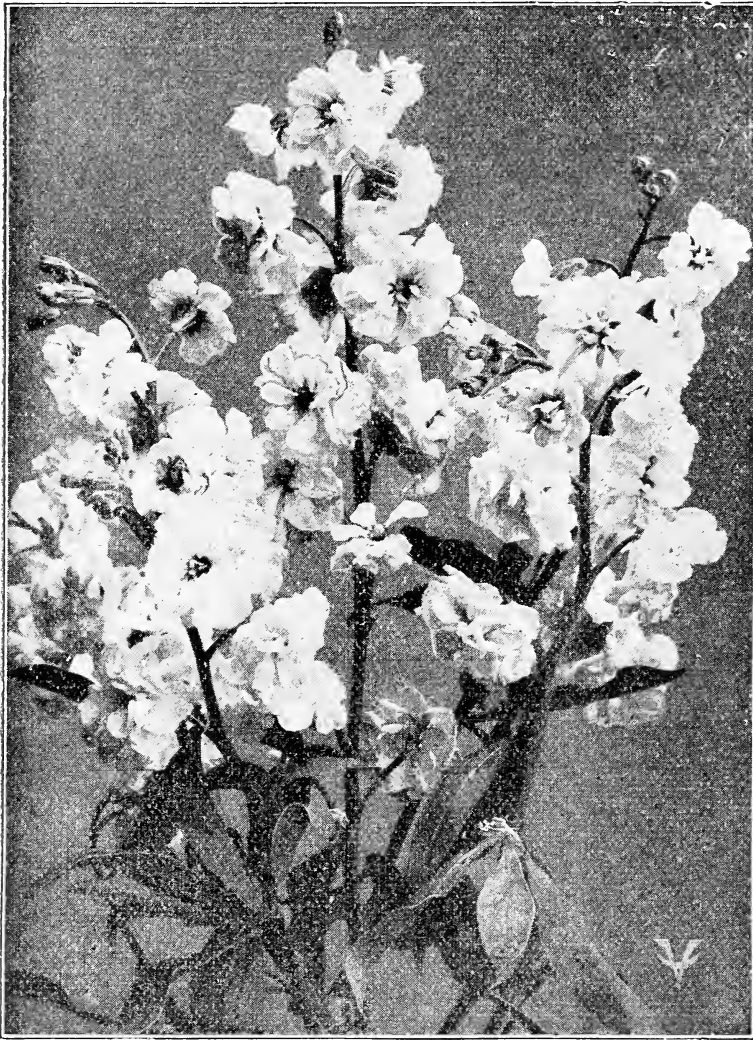
Superb. Mixed. Pkt. 15c, per ounce 25c.

Dresden Perpetual. Pink 15c pkt.

Crimson, Blood Red, White, Violet, Dark Blue, Purple, Mixed. 10c per pkt.

STOKESIA (Cornflower Aster) Cyanea.

This is not new, but is a rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border, and indispensable for cutting. 10c.



CUT AND COME AGAIN TEN WEEKS STOCK

SUNFLOWER. These comprise plants of majestic growth and immense showy flowers, suitable for shrubberies, woodlands, wild gardens and subtropical gardening; the dwarfier kinds, with smaller flowers, are charming when grouped in mixed flower borders. Excellent for cutting.

Large Flowered Tall—

Californicus Fl. Pl. 5 feet. Double dark yellow. 5c pkt.

Double Mixed. 5c pkt.

Russian Mammoth. Single, of gigantic dimensions. 1 oz., 10c.

Miniature-Flowered Sunflowers—

Double Hybrids. Double and semi-double flowers. 10c pkt.

SEE SEPARATE PAGE.

SWEET ROCKET (Hesperis) Old-fashioned garden plant, also known as Dame's Rocket and Dame's Violet; 2 to 3 ft. high, with spikes of showy white, lilac and purple fragrant flowers, fine for shrubbery and permanent border; mixed colors. 5c pkt.

SWEET SULTAN. See Centaurea.

SWEET WILLIAM (Dianthus Barbatus)

(London Tufts). A well-known, attractive, free-flowering hardy perennial, producing a splendid effect in beds and borders with their rich and varied flowers. It is much better to raise new, vigorous, young plants from seed every season than to divide the old plants.

Pink Beauty, deep pink. 10c pkt.

Double Mixed. 10c pkt.

Single Mixed. 5c pkt.

TAGETES (See Marigolds and Calendula).

THUNBERGIA (Black-eyed Susan) Beautiful rapid-growing climber used especially for hanging baskets, low fences, etc., flowers in buff, white orange, etc., with dark eyes; mixed colors. 5c pkt.

TORENIA. Fine annual; splendid plant for vases, hanging baskets, borders, etc., blooming the entire season. Blue, white, and yellow. 10c pkt.



VERBENA

TRITOMA (Red Hot Poker Plant) Readily grown from seed. Will bloom first year if sown early. Tritomas are becoming very popular for bedding plants and cut flowers; hardy perennial; 4 ft.. Vary in color from light and deep orange, salmon and carmine. 10c pkt.

TROPAEOLUM (See Nasturtium).

VERBENAS. Unrivalled as low growing bedding plants. Long season of bloom. Very few plants will make such a gorgeous display during the summer months as the Verbenas, or furnish more flowers for cutting. Start seed in the house or under glass early in the spring, and transplant after three or four inches of growth. Good healthy plants can be produced readily from seed. They flower in July, and continue strong and healthy until after severe frosts.

Striped. Excellent flowers, with Carnation-like stripes. 10c pkt.

Scarlet. Brightest scarlet. Quite true. 10c pkt.

Pure White. Quite true from seed. 10c pkt.

Blue. Shades of blue and purple. 10c pkt.

Yellow. Pale primrose yellow. 10c pkt.

Pink. 10 pkt.

Mixed Colors. 5c pkt.

Verbena Hybrida. Extra large flowers, fine mixed colors, choice seed, saved only from the most beautiful named flowers. 10 pkt.

Lemon Scented. 10c pkt.

VIOLA (See Pansies).

VINCA (Madagascar Periwinkle or old Maid) Ornamental free-blooming plant, fine for bedding flower from seed the first season continuing until frost, or they may be potted and kept in bloom through the winter, 2 ft. Rose 10c, White 10c, Mixed 5c.

WALLFLOWER. Well-known deliciously fragrant half hardy perennials, blooming early in the spring, with spikes of beautiful flowers. They should be protected in a cold frame in the winter and planted out in April.

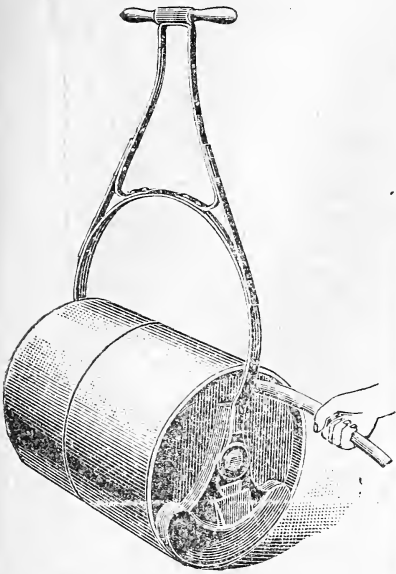
Single Mixed. All colors. 5c pkt.

Double Finest Mixed. 10c pkt.

WILD CUCUMBER (See Echinocystis.) 5c pkt.

WILD GARDEN FLOWER SEEDS. Under this heading we offer a mixture of the easiest and surest growing kinds that can be sown broadcast, and with little or no care will produce a bright effect in places that would otherwise be nothing but a collection of unsightly weeds, and furnishing an abundance of flowers for cutting. 5c pkt.

ZINNIAS (Youth and Old Age) One of the most brilliant and showy of annuals. An old and continued favorite. The seed can be sown early and transplanted or sown later in open ground. They come into bloom early in summer, and continue until hard frost.

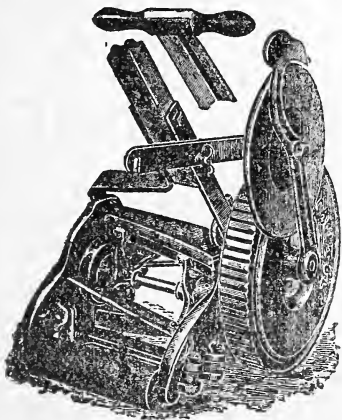


DUNHAM LAWN WATER- WEIGHT ROLLER

The Dunham Ball-bearing Water-weight Roller is made in one section and electric-welded, no rivets being used so the water cannot possibly leak out. The weight of this roller can be increased or diminished by increasing or decreasing the water. Very simple and easy to handle and revolutionizes the work of rolling. When not in use the water can be let out if desired.

No. WB-5.....\$20.00
No. WB-7.....23.00
Add \$3.00 for the counterweight.

LAWN TRIMMER

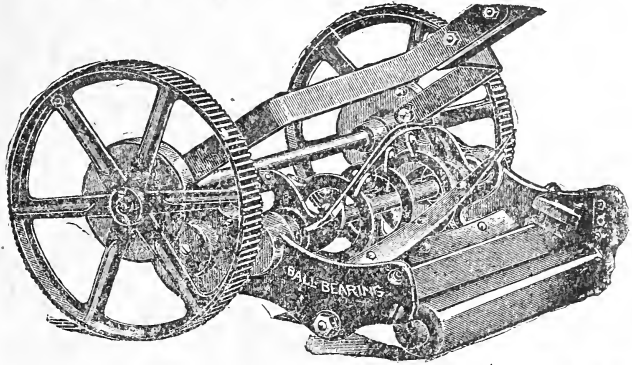


For trimming around walks, flower beds, trees, posts, monuments and shrubbery, and all places that cannot be reached with any lawn mower. Cuts within one fourth of an inch of the edge.

Has a revolving cutter with four crucible steel blades, tempered in oil and cuts six inches wide.

PRICE \$6.50 AND \$9.00

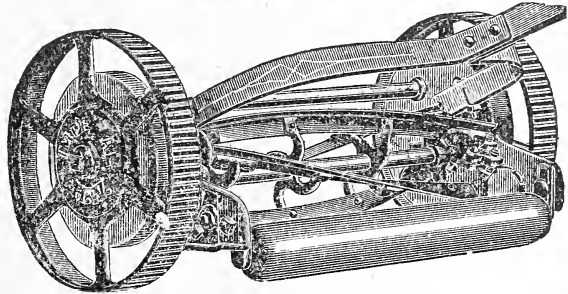
FOREST CITY BALL BEARING



This unquestionably is the Best BALL BEARING MOWER on the market. Perfect in detail, absolutely guaranteed.

15-inch.....\$19.00	19-inch.....\$23.00
17-inch.....21.00	21-inch.....25.00

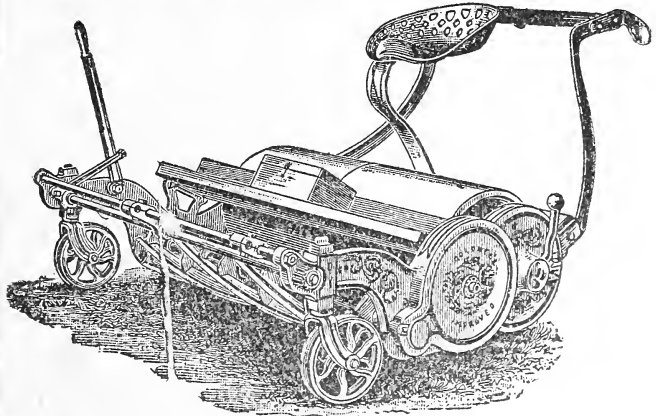
HIGH WHEEL IMPERIAL



Absolutely Warranted for Two Years. Positive Adjustment. Has no Equal. In Public Parks, Private Lawns and Cemeteries everywhere. Ask for Special Catalogue.

16-inch.....\$16.00	20-inch.....\$20.00
18-inch.....18.00	22-inch.....22.00

IMPERIAL HORSE LAWN MOWER



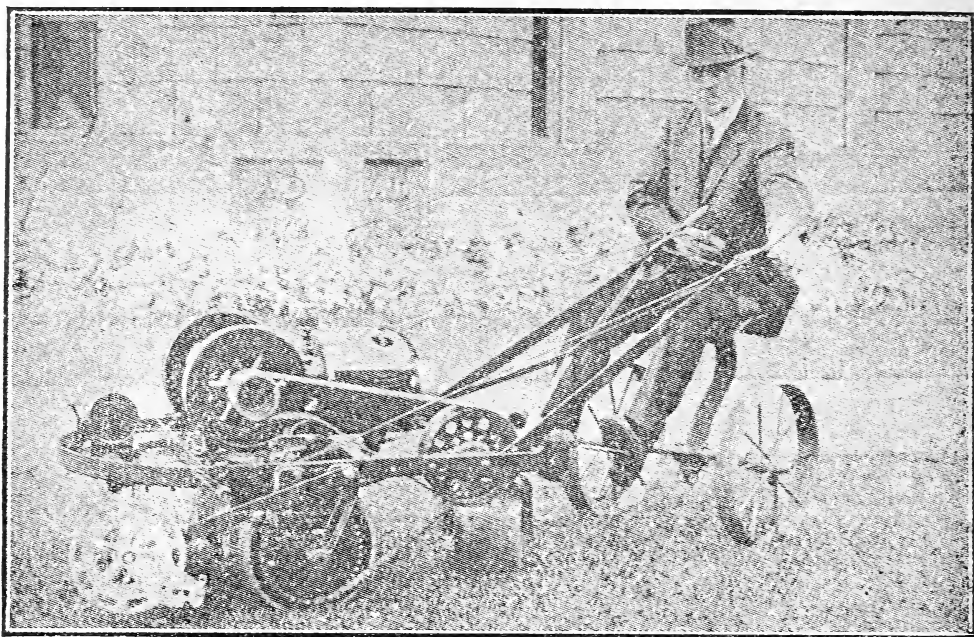
Price on Application.

Absolutely Guaranteed to Cut Clean in turning around.

Send for Catalogue and Prices.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

IDEAL POWER LAWN MOWER



THE IDEAL POWER LAWN MOWER is a sturdy, compact, fool-proof mower which runs on gasoline power and requires only the guidance and attention of an ordinary workman. It will do as much work as five or six men can do with hand mowers, and is rapidly replacing these as well as the old horse-drawn mower wherever there is any quantity of lawn to be cared for.

The "Ideal" is not only a power mower but is also a power roller.

Thousands of "Ideals" are now in use on large estates, cemeteries, public parks, country clubs and golf courses.

Send for our fully illustrated and descriptive catalog.

A Few Purchasers in Central New York

C. S. Estrabrook, Syracuse, N. Y.
E. N. Trump, Syracuse, N. Y.
E. I. Rice, Syracuse, N. Y.
Willard C. Lipe, Syracuse, N. Y.

John Hunter, Fulton, N. Y.
Oswego Public Works, Oswego, N. Y.
H. A. Moody, Pulaski, N. Y.
Camillus Cemetery, Camillus, N. Y.

A Few IDEAL Users

Thomas A. Edison, West Orange, N. J.
St. Mary's College, North East, Pa.
State Normal School, Oswego, N. Y.
Montclair Dept. of Parks, Montclair, N. J.
Geo. M. Cohan, Great Neck, L. I.

Mary Roberts Rhinehart, Sewickley, Pa.
H. J. Heinz Estate, Pittsburg, Pa.
Dedham Country Club, Dedham, Mass.
Trinity College, Hartford, Conn.

Douglaston Manor, Pulaski, N. Y., June 25, 1920.

Mr. F. H. Ebeling, 217 Warren St., Syracuse, N. Y.

My Dear Mr. Ebeling:

I am writing you in regard to the "Ideal Power Lawn Mower" which I purchased of you a short time ago.

It's a great "little machine." We can mow in two hours our lawn which took a man and horse a full day and do the work better in every way. It is also a pleasure to run it. It's certainly a great success in every way as a mower, also as a time and money saver.

Yours very truly,

H. A. MOODY.

1922 Price List of Ideal Power Mowers

Ideal Power Mower with one cutting mower.....	\$325.00
Ideal Power Mower with one cutting mower and riding trailer.....	345.00
Extra for one cutting mower.....	50.00
Extra for one 22-inch putting green mower.....	55.00
Ideal Junior 22-inch Power Lawn Mower.....	210.00
Extra for one cutting mower.....	35.00
Extra for one 18-inch putting green mower.....	45.00
Ideal Power Triplex Mower, 84-inch cut, for large areas.....	1050.00

F. O. B. Cars Lansing, Michigan

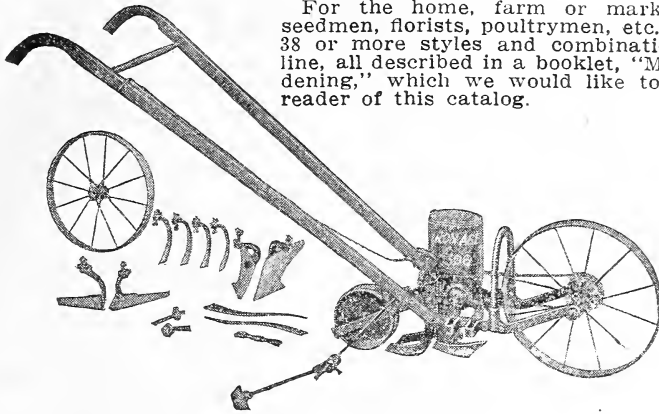
IRON AGE GARDEN SEED DRILLS AND WHEEL HOES

For the home, farm or market garden; seedmen, florists, poultrymen, etc. There are 38 or more styles and combinations in this line, all described in a booklet, "Modern Gardening," which we would like to send each reader of this catalog.

No. 306

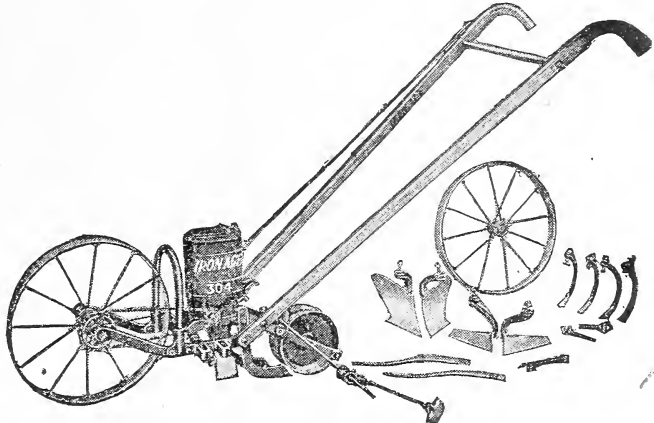
Combined

\$17.00



No. 306 Combined Hill and Drill Seeder, Double and Single Wheel Hoe. Sows accurately any small garden or flower seed, in continuous rows or in hills, 4 to 24 inches apart, opens its own furrow, covers the seed and rolls it, and marks the next row. Sows where you can see it drop. Adjustable index permits you to sow as thick as your experience tells you is right. The shut-off is connected at the handles, at your finger ends. Includes all cultivating tools shown with it and described under No. 301 Wheel Hoe on the next page.

Packed weight, 57 pounds. If wanted as drill only order as No. 7. See illustration.

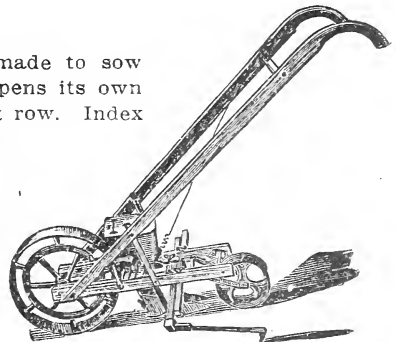


No. 304 Combined Drill Seeder, Double and Single Wheel Hoe is same as No. 306 except that it is arranged to sow only in continuous rows and it has a different opening plow.

No. 304 Combined, \$16.00

NEW MODEL SEED DRILL. Is strongly built and made to sow accurately in continuous rows, any thickness wanted. Opens its own furrow, covers the seed and rolls it. Also marks the next row. Index helps you to set right for sowing. Flow of seed can be cut off instantly. Adjustable marker. Capacity two quarts. Sows all kinds of seed.

Ask for
special IRON AGE booklets
giving full descriptions.



New Model Seed Drill, \$11.00.

IRON AGE WHEEL HOES

NO. 301 DOUBLE AND SINGLE WHEEL HOE. Works astride or between the rows. Can be changed from double to single wheel in 3 minutes. This is the Wheel Hoe form of No. 306, and will take seeder attachment any time. Price of attachment, \$8.50. The tools include pair each side hoes, plows and rakes, also four steel cultivator teeth, all adjustable on the frame to suit width rows and character of work you are doing. You can open or cover fur-



No. 301 Double and Single Wheel Hoe, \$10.00

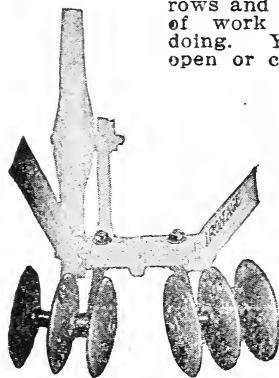
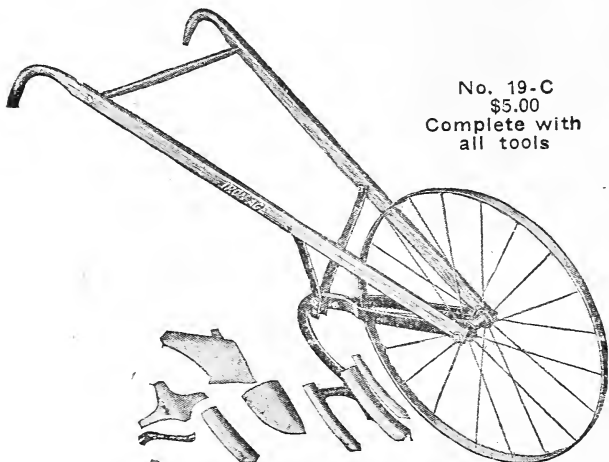


Fig. 369,
Disc Cultivating
Attachment,
\$2.80

rows, ridge growing crops, cultivate, hoe close to plants without danger to them, pulverize and level the soil, and so forth. Steel frame, 16-inch steel wheel, bicycle style. Adjustable handles. Is pushed ahead a step at a time in a natural way. Sold complete as No. 301 or as No. 303 with side hoes only. Takes Disc Cultivating Attachment, Fig. 369, Landside Plow Attachment, Fig. 82, and many others.



No. 303.
With Side
Hoes only
PRICE \$6.00



No. 19-C
\$5.00
Complete with
all tools

No. 19-C Wheel Cultivator and Plow
Has extra high steel wheel—24 inches—which some seem to prefer. The frame is an all-steel arch in three parts—compact, light, durable. The working tools are attached in position easily and are adjustable. The plow is noted for turning a fine good furrow.

The cultivating tools include Landside Plow, Scuffle Hoe, two separate Cultivator Teeth, Set of Cultivator Teeth on bracket.

NO. 320 SINGLE WHEEL HOE, CULTIVATOR, ETC. Will do practically same work as No. 301 except that it is meant to go between rows only. Seed attachment can be used on it if wanted. If wanted with side hoes only, order as No. 321, Price \$5.00.

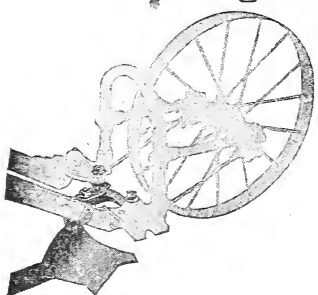
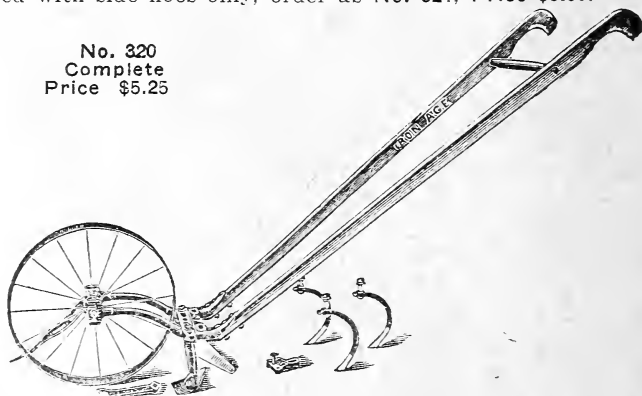


Fig. 82,
Landside Plow Attachm't,
\$2.50

No. 320
Complete
Price \$5.25



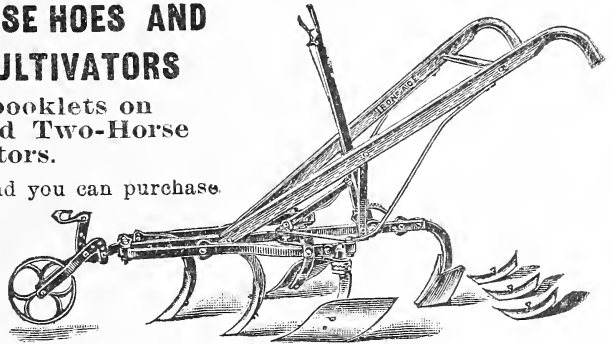
Ask for Iron Age Booklet,
"MODERN GARDENING"

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

IRON AGE**HORSE HOES AND CULTIVATORS**

Ask for complete new booklets on
Horse Hoes, Harrows and Two-Horse
Walking Cultivators.

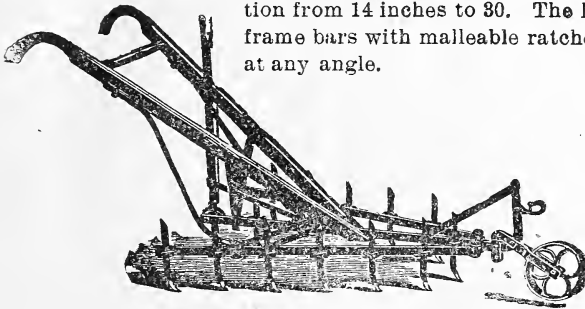
These tools are all made standrd and you can purchase them in their simplest forms and build up to whatever your ground or crops need--with or without lever expander, with lever or plain wheel or without either, etc. Long, high steel frames, make them run steady and clear of trash.



No. 600 E P, \$10.75

With lever expander and plain wheel.

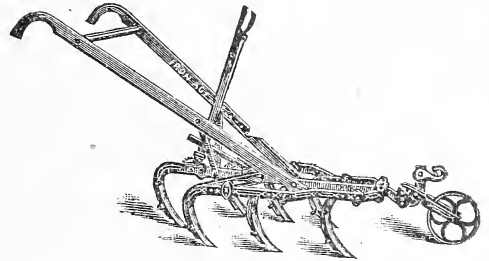
No. 600-EP Horse Hoe and Cultivator has a range of cultivation from 14 inches to 30. The hoe standards are solid steel, attached to the frame bars with malleable ratchet castings that give adjustments to the hoes at any angle.



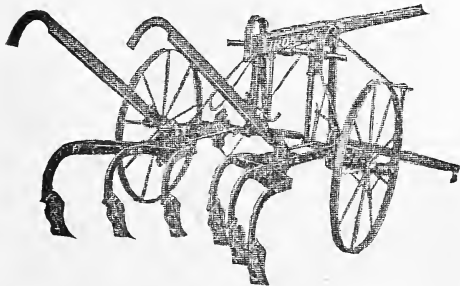
No. 4014 E P, \$10.00

No. 4014-EP Harrow and Cultivator carries 14 diamond shaped steelteeth with a small cultivator point forged on one end. It is adjustable for many kinds of crops and may be used as a Harrow or Cultivator. Opens to 34 inches and closes to 11.

No. 1007-EP Seven Tooth Cultivator. Especially adapted for first workings or in level cultivation. The teeth are narrow and cut deep, throwing small furrows that do not harm the young plants. Thorough cultivation in all soils. Opens to 24 inches and closes to 10.



No. 1007 E P, \$9.50



No. 976, \$38.50

Two-Horse Walking Cultivators.

These are balance frame machines that are often used on steep hillsides or in very rough ground.

The gangs shift in parallel lines, the points always face one way and the handles are adjustable to permit the operator to work astride the row or at one side. The wheels are steel and adjustable on the arch from 36 to 48 inch rows. Built with 6 or 8 break pin or spring hoes or with spring teeth.

ASK FOR **IRON AGE** BOOKLETS

Prices subject to change without notice.

IRON AGE FERTILIZER DISTRIBUTORS

These are for use in gardens or on truck farms.

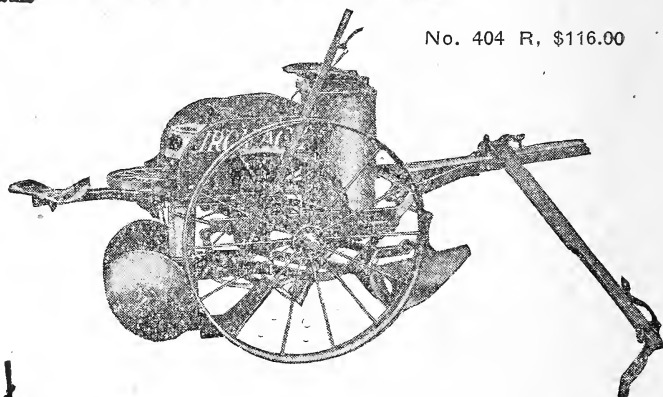
No. 322 sows the fertilizer and seed at same operation. Opens two separate furrows for fertilizer and covers with soil before opening furrow for the seed. Covers the seed, rolls it and marks the next row. Distributes fertilizer thoroughly and sows the seed with practically the same seeding attachment as on No. 306 Combined. No. 322 can be used for side dressing and includes pair of extra wheels to travel astride the plants.



No. 322 Combined Fertilizer Distributor, Hill and Drill Seeder, \$24.50

IRON AGE POTATO PLANTER

Plants one seed piece in every space and one only. Makes a perfect stand possible and saves at least one bushel of seed per acre. Straight rows, even depth and uniform spacing. Can plant 9 to 24 inches apart. Furnished with or without fertilizer distributor, regular or large size. Also, with seed box extension if wanted. Steel seed box. Steel frame. Choice of four styles of opening

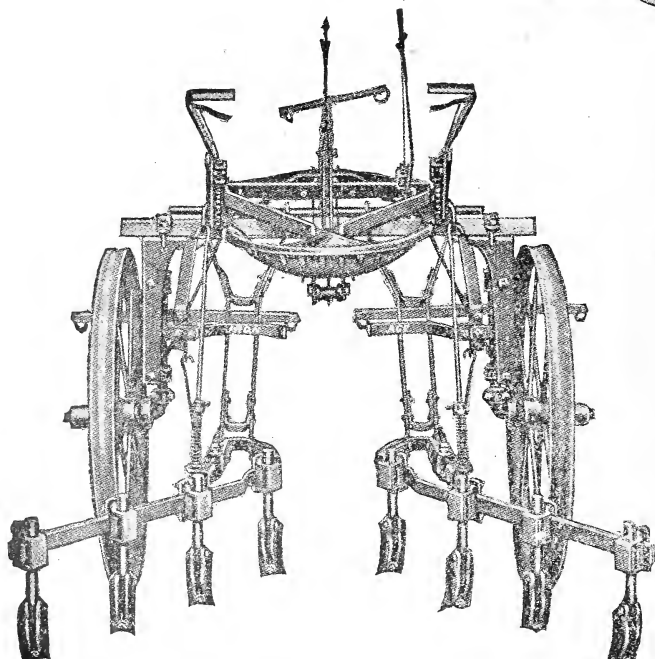


No. 404 R, \$116.00

plows. The boy on the back seat pays, for it costs no more to prepare ground, cultivate, fertilize and spray a perfect stand, and every hill missed decreases your yield.

IRON AGE RIDING CULTIVATORS

All steel frame. Pivot wheels with ball bearings, hinged gangs, steel whiffletrees, double end, reinforced cultivator points, parallel shift so points always face the way you set them, adjustment of points for depth and angle—these make this line of cultivators thorough and accurate, easy to guide, safe in adjustments and they wear well. Furnished with break pin or spring hoes or with spring teeth.



No. 78—Ball Steel Pivot-Wheel Riding Cultivator, \$50.00
No. 78 F-S Shoe, plain, \$50.00

Ask for Special Iron Age Booklets on each line.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

IRON AGE SPRAYERS

For Every Purpose

There are more than 70 combinations suitable for all kinds of spraying, and most of them can be built up on the unit plan so that you can buy what you need now and the balance as you require it.

No. 192 Bucket Pump

is made of brass and so put together that anyone can quickly get at any part for cleaning or repairs. Bronze ball valves, candlewick packing, pressed brass nozzle.

Price \$10.50

No. 197 is same pump mounted in 20-gallon barrel, on steel wheels, with four feet of steel pipe. Pump is detachable in less than a minute. A good outfit for disinfecting stock buildings or any other spraying.

No. 190 is 50-gallon horizontal barrel rig, mounted for use in any wagon, cart, etc. Pump, single or double acting. Can be built into a 50-gallon power rig or combination hand and power outfit. Automatic mixing of solutions.

Use in Any Wagon.

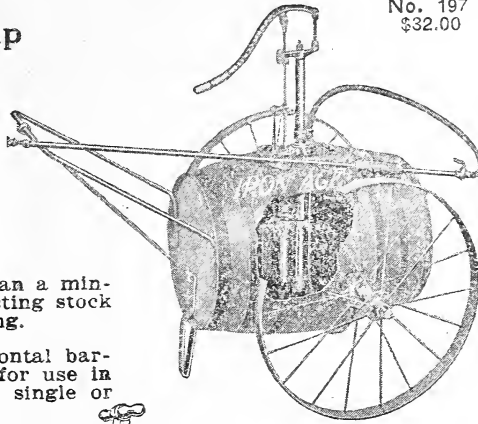
Outside Pumps.

Bronze Ball Valves.

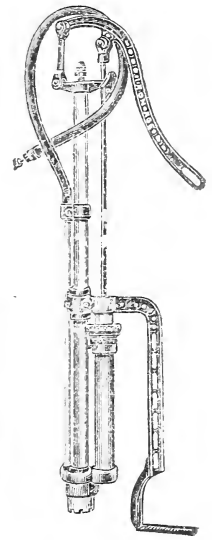
Hemp Packing

Easy to Get.

No. 190—50 Gallons
\$38.00



20 Gallon
Barrel Sprayer



No. 192
Bucket Pump
\$10.50

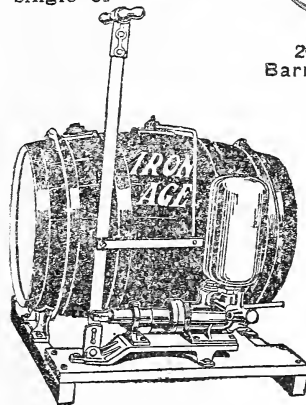
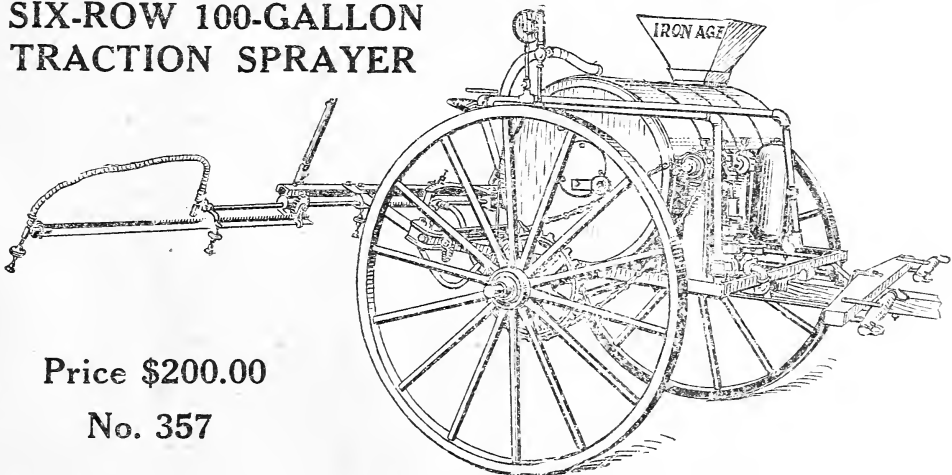


Fig. 457 shows 4-row attachment for use with No. 190 at back of a wagon, in row crops. Intended for small acreage.

Fig. 457
Four Row Sprayer Attachment
\$16.50

SIX-ROW 100-GALLON TRACTION SPRAYER



Price \$200.00

No. 357

Here is a machine for the farmer who wishes to spray at the highest pressure obtainable from traction and to do it rapidly. The "Iron Age" Triplex Pump will deliver spray under a pressure of about 175 lbs. when operated from the wheels by traction. Just as the six-cylinder automobile runs more smoothly than the four, this pump will run more smoothly than the Duplex, as each plunger connects with the crankshaft at a different angle.

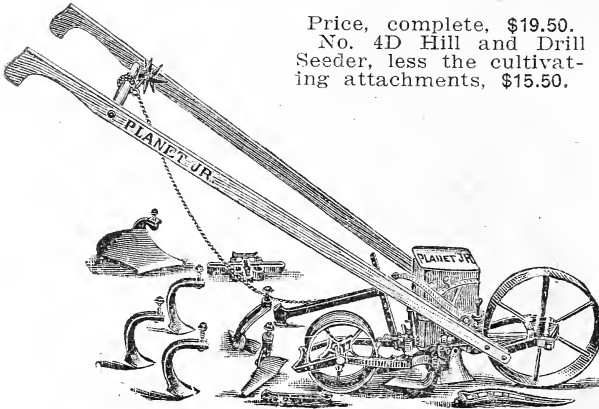
Large acreages of potatoes demand quick work and a machine that covers six rows at high pressure is worth the difference in cost. It cuts the team travel one-third and covers the ground more than half again as fast as with the four-row sprayer on account of time saved in turning—a vital matter in these days of scarce labor.

Where two crops grow together, such as tomatoes and peas, he can stop off every other nozzle so as to cover only one of the crops.

Planet Jr. Seed Drills

The success of your crops depends on good seeding and thorough cultivation. Both these operations a Planet Jr. will do in a fraction of the time required by old methods and with a fraction of the labor. Fifty years of study and experiment have resulted in several types of Planet Jr. Implements which combine in the highest degree effective work, ease of handling and wear-resisting quality.

No. 4 PLANET JR. COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW



Price, complete, \$19.50.
No. 4D Hill and Drill
Seeder, less the cultivat-
ing attachments, \$15.50.

This accurate, durable and easy-run-
ning tool sows all garden seeds from
the smallest up to peas and beans in
hills, 4, 6, 8, 12 or 24 inches apart, or
in drills at the proper thickness and
depth; rolling down and marking out
the next row all at one passage. No
time is lost. No seed is wasted. By
removing the seeder parts you have a
first-class single wheel hoe with a set
of specially hardened steel tools.
Makes the care of a garden a pleasure
as well as very profitable. Can be
used successfully by men, women or
growing boys.

No. 3 "PLANET JR." HILL AND DRILL SEEDER

The No. 3 driving wheel is steel,
with heavy forged steel spokes, not
"piano wire"; of proper height,
with broad face, making the tool
light and easy running, even with
the hopper filled to the brim.

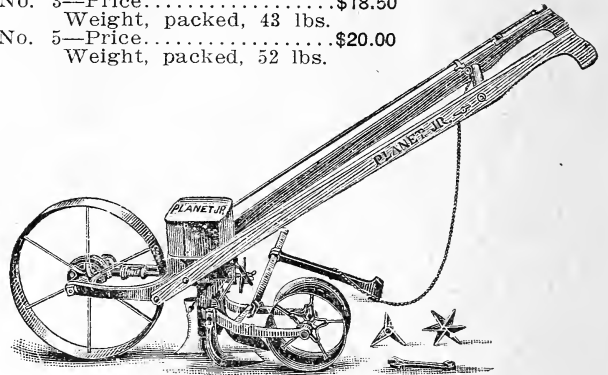
The special force feed is admir-
able, working equally well whether
sowing with an ounce or a full hop-
per.

The hill dropping is simple and
reliable, making hills 4, 6, 8, 12 or
24 inches apart.

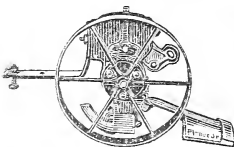
No. 5 "Planet Jr." Hill and Drill Seeder

16½-inch steel wheel. Sheet steel
hopper holding 5 quarts. Built on
the same lines as No. 3 Drill, only
larger.

No. 3—Price.....\$18.50
Weight, packed, 43 lbs.
No. 5—Price.....\$20.00
Weight, packed, 52 lbs.



No. 35 Planet Jr. Seeder Attachment. Price \$6.25

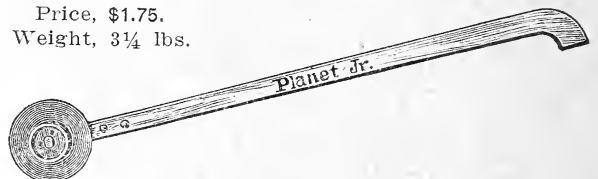


With handle, \$6.75. Weight, 8½ lbs.; with handle, 9½ lbs.
This seeder can be attached to any Planet Jr. Single or Double
Wheel Hoes and Garden Plows with a single bolt and will be found
particularly suitable for the small kitchen garden. It will plant prac-
tically all seeds in a straight, continuous row, at a uniform depth, in a
fraction of the time required by hand and infinitely better. Everyone
having a wheel hoe should have this attachment. Also furnished with
a handle so it can be used as a separate machine.

No. 2 Planet Jr. Grass Edger

To keep grounds looking neat and
attractive the grass bordering all
walks must be frequently edged
and the Planet Jr. No. 2 Edger will
do this work quickly and with lit-
tle effort, no matter if the walks
are straight or curved or of cement,
stone or brick.

Price, \$1.75.
Weight, 3¼ lbs.



LIME AND SULPHUR

Every spring when the buds are swelling, but before they show green at the tips, all your fruit trees, vines, shrubs of every kind should be sprayed with our Lime-Sulphur. Applications made later than this may burn the foliage and cause serious injury. Therefore you should order early and be prepared for the season.

Lime-Sulphur is not a poison and kills only by coming directly in contact with the insect. It does not kill leaf-eating insects. Spray for these with our Pyrox.

It's in concentrated solution, always ready for Fall, Winter and Spring use. You simply add spring water and then spray.

1 gal. 40c; 5 gal \$1.75; 10 gal \$3.20; barrel lots at special prices.

PYROX—KILLS AND CURES



Pyrox sticks like paint; kills all leaf-eating insects, and prevents disease on potatoes, fruit trees, shade trees, and small fruits and vegetables. It serves the purpose for which two mixtures were previously used, and has done so for over ten years. Pyrox is no experiment; it was introduced in 1898.

It Won't Wash Off. If it were not for the new growth coming along, as is usually the case with shade trees, fruit trees, shrubs, potato vines, etc., and which of course must be protected, one spraying would be enough for the season. Lb. 40c; 5 lbs. \$1.50; 10 lbs. \$2.50; 25 lbs. \$5.75; 50 lbs. \$10.00; 100 lbs. \$18.00; 300 lbs. \$51.00.

ARSENATE OF LEAD

½ lb. package	\$.30	25 lb. package.....	\$ 7.00
1 lb. package.....	.50	50 lb. package.....	12.50
5 lb. package.....	2.00	100 lb. package.....	24.00
10 lb. package.....	3.20		

ARSENATE OF LEAD PASTE (Same as Pyrox)

For Caterpillars and Chewing Insects

For spraying trees and shrubs against leaf chewing insects, fruit flies, and codling moth. Contains 15½% Arsenic Oxide, mixes easily in water without clogging nozzle, sticks like paint, kills quick and will not burn foliage. Dilute 1 lb. to 25 gallons. 1 lb. 35c; 5 lbs. \$1.50; 10 lbs. \$2.25; 25 lbs. \$5.00; 50 lbs. \$8.00; 100 lbs. \$14.00.

INSECTICIDES

Arsenate of Lead Paste, 1 lb. 35c; 5 lbs. \$1.50; 10 lbs. \$2.25; 25 lbs. \$5.00; 50 lbs. \$8.00; 100 lbs. \$14.00.

Aphis Punk.

Black Leaf 40, price 35c, \$1.25, \$3.75, \$15.50.

Black Stuff, Tobacco Powder, per lb. 20c; 10 lbs. \$1.50.

Bordeaux Mixture, powder, per lb. 30c, 5 lb. \$1.40, 10 lb. \$2.25.

Bug Death, 1 lb. 20c; 3 lbs. 45c; 5 lbs. 65c; 12½ lbs. \$1.60; 100 lbs. \$9.25.

Carbolinum, 1 or 2 gals. \$1.45 per gal.; 3 gals. \$1.35 gal; 5 or 10 gals. \$1.25 gal.

Cooper's Sheep Dip, pkg. \$2.00.

Cut Worm Killer, 1 lb. 30c; 5 lbs. \$1.25; 25 lbs. \$4.00.

Eureka Weed Killer, per gal. can, \$1.75.

Fir Tree Oil Soap, per pkg. 35c.

Grape Dust, 5 lbs. 75c.

Grafting Wax, ¼ lb. 15c; ½ lb. 25c; 1 lb. 40c.

Hellebore, ¼ lb. 20c; ½ lb. 35c; 1 lb. 65c.

Kerosene Emulsion, pt. 35c; qt. 60c; ½ gal. \$1.50.

Kiltone, modified, 10 lbs. \$2.50.

Lambert's Death-to-Lice, 15c, 30c, 60c, \$1.

London Purple, per lb. 60c.

Jumbo Powder Gun, 50c.

Nico-Fume for spraying and vaporizing, ¼ lb. 75c; 1 lb. \$2.35; 4 lbs. \$8.50; 8 lbs. \$16.50.

Nico-Fume Tobacco Paper for fumigating, 24 sheets \$1.35; 144, \$6.00; 288, \$11.00.

Nicoticide, ½ pt., \$1.25; pint, \$2.50.

Paris Green, ¼ lb. 15c; ½ lb. 25c; 1 lb. 65c.

Persian Insect Powder, per lb. \$1.25.

Scalecide, 1 qt. 65c; 1 gal. \$1.65; 5 gal. \$6.50.

Slug Shot, 1 lb. carton 20c; 5 lbs. 50c.

Sulpho Tobacco Soap, 10c and 20c.

Sticky Banding, 1 lb. 60c; 5 lbs. \$2.75.

Tanglefoot, 1 lb. 60c; 5 lbs. \$2.25; 10 lbs. \$4.50.

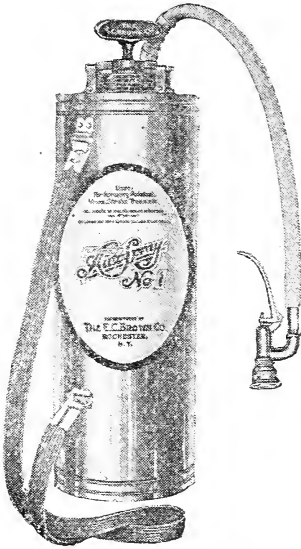
Tobacco Stems, 1 lb. 5c; per bale, \$3.00.

Weedicide, per gallon, \$1.75.

Fish Oil Soap, 1 lb. 35c.

Fish Oil Soap and Tobacco, 1 lb. 25c; 5 lbs. \$1.00.

Melrosene. The most effective remedy for killing full-grown rose bugs. Will not discolor flowers. Dilute 1 part to 20 parts of water. ½ pt. 50c; 1 pt. \$1.00; 1 qt. \$1.75; ½ gal. \$3.25; 1 gal \$6.00.



Auto-Spray No. 1
Figure No. 492

AUTO-SPRAY NO. 1 Capacity About 4 Gallons

This is the strongest and simplest compressed air sprayer on the market.

More than 300,000 are in use and it has never failed to please our trade during the years we have sold it.

It is used to spray vines, shrubs, trees, potatoes, also for applying disinfectants and whitewash in buildings.

It is made with galvanized or brass reservoir, as ordered. (We recommend the brass because not affected by strong chemicals.)

GUARANTEE—We agree to refund purchase price to any dissatisfied customer within ten days.

NET CASH PRICES

Auto-Spray No. 1-B, brass tank.....	\$9.50
Auto-Spray No. 1-D, galvanized tank.....	6.50
2-ft. Brass Extension for trees and low down work.....	.50
Brass Elbow to spray under side of leaves.....	.35
Brass Strainer for filling.....	1.20

NON-CLOG ATOMIC NOZZLE

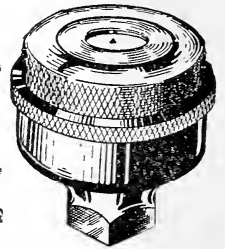
This nozzle is what its name implies. It is the only nozzle made which does not and cannot clog.

It may be adjusted for wide or narrow spread of spray and for long distance or near-by work.

We warrant this nozzle and will refund purchase price within ten days to any customer who is not more than pleased.

We repeat **IT DOES NOT CLOG**. One user said the **NON-CLOG** was worth \$10.00 to him.

PRICE—Brass, straight or 45 degrees.....\$1.50



Non-Clog Atomic
Figure No. 398



Auto-Spray No. 40
Figure No. 426

AUTO-SPRAY NO. 40 A General Purpose Sprayer

Made in two sizes, either galvanized or brass tank and with or without truck.

The pump is powerful, has brass working parts and ball valve, an ample agitator cleans suction screen in operation and mounted on truck with 20-inch wheel, is easily portable on soft ground.

Each machine is equipped with 8 feet of $\frac{3}{8}$ -inch high grade hose, 8 feet of iron extension pipe, lever shut-off and nozzle.

The Auto-Spray No. 40 is adapted to both large and small work and will spray a tree as well as the largest sprayers made. It is largely used for whitewashing and in greenhouses.

PRICES

Auto-Spray No. 40-A—Brass tank, capacity 8 gallons, no truck.....	\$26.00
Auto-Spray No. 40-B—Galvanized tank, capacity 8 gallons, no truck.....	21.50
Auto-Spray No. 40-C—Brass tank, capacity 12 gallons, with truck 20-in. wheel..	35.00
Auto-Spray No. 40-D—Galvanized tank, capacity 12 gals., with truck 20-in. wheel	25.00
Iron Extension Pipe, 2 to 8 ft. lengths.....	.50

SLUG SHOT

It is a light, composite, impalpably fine



powder, easily distributed by Duster, Bellows, or in water by spraying. It is thoroughly reliable in killing Currant Worms, Potato Bugs, Cabbage Worms, Lice, Slugs, Sow

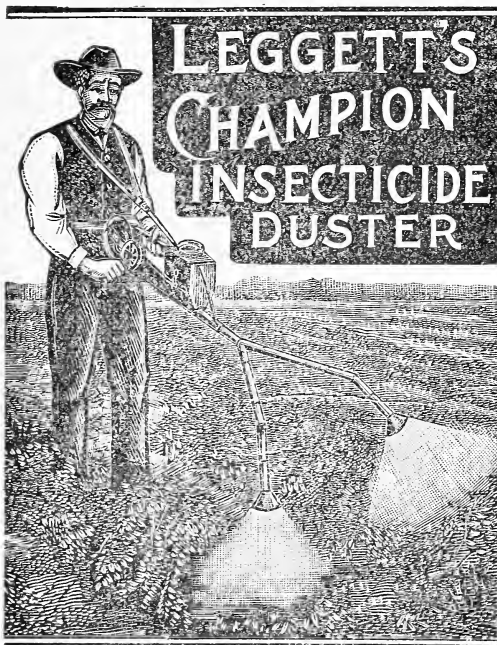
Bugs, etc., and is also strongly impregnated with fungicides. Lb. 20c; 5 lb. 60c; 10 lb. \$1.00.

Protexol or Carbolinium

Insecticide and Wood Preserver

1 gallon.....	\$1.45
5 gallons, per gal.....	1.35
10 gallons, per gal.....	1.25

Special prices for larger quantities.



A wonderful invention. Light, swift, safe, strong and cheap. Dusts the pure green. Kills all the bugs and pests without injuring the vines or foliage. Less green used and better results obtained.

The Champion, \$15.00

Remedy for Cut Worms on Cabbages and Tomatoes

Soak bran with Paris green and scatter same in the rows. This will destroy this troublesome pest.

SULPHO-TOBACCO SOAP



Quickly exterminates all insect life on plants or flowers in and out of doors. Unsurpassed for rose bushes. For a cheap, effective, clean and harmless Insecticide this is unexcelled. It also acts as a valuable fertilizer reviving plant life. For domestic purposes it rids the house of cockroaches, and is a superior wash for dogs and all animals. Prevents poultry lice. You cannot afford to be without this popular and well known Insecticide, if you desire to be successful in plant culture. A trial will give highly gratifying results.

3-oz. Cake, sufficient for 1½ gallons prepared solution, 10c; mailed postpaid, 15c.

8-oz. Cake, sufficient for 4 gallons prepared solution, 20c; mailed postpaid 35c.

With every order we enclose free a booklet "the Window Garden," giving valuable information of Plants, and exterminating of Insects.

ANNIA GERM

Kills Weevil in Peas, Beans, Corn and grain. Also worm and moth destroyer. Annia germ prevents moth and weevil getting into any kind of grain in the hottest weather and will save thousands of dollars in value for the users of this simplet but infallible remedy.

BUG DEATH

Contains No Paris Green or Arsenic



This Insecticide has been on the market for over twenty years. While the first cost to kill the bugs on an acre of potatoes is rather more than the arsenical insecticides, the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines.

Put up in packages as follows:

1-lb. package (sifter top).....	\$.20
3-lb. package.....	.45
5-lb. package.....	.65
12½-lb. package.....	1.60
100-lb. package.....	9.25
Dickey Bug Death Duster.....	.50
B-D Sifter.....	.75

IT STICKS; IT STAYS; KILLS BUGS, AND PAYS

To Destroy Ants in Hills, Etc.

Inject bisulphate of carbon in the hills. This will destroy them promptly.

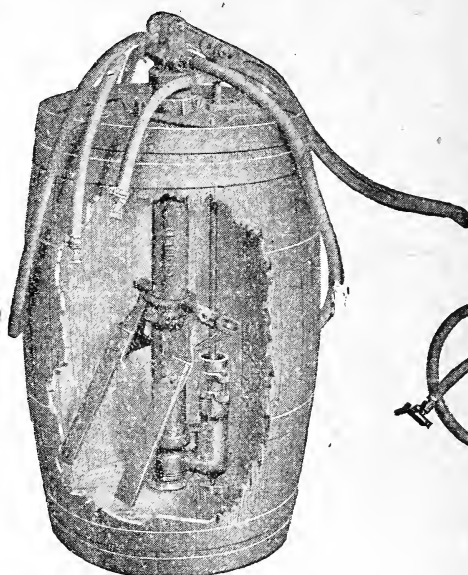
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

GOULDS HAND SPRAYERS

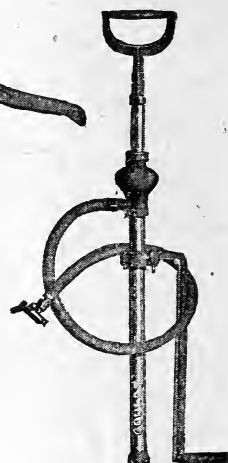
POMONA—FRUITALL—BORDEAUX



Goulds' "Fruitall"
Barrel Sprayer



Goulds' "Pomona"
Barrel Sprayer



Goulds' "Bordeaux"
Brass Bucket Sprayer

The "Fruitall" is extremely simple in design, of smaller capacity and lighter weight than the "Pomona." It will supply two leads of hose and two nozzles. All working parts, including plunger, gland, valves, valve seats and strainer are of BRONZE. A wing agitator is used, similar to that on the "Pomona."

The "Pomona" is an extra high grade barrel sprayer with sufficient capacity to supply two leads of hose and four nozzles. The plunger, plunger connection, gland, valves, valve seats, and strainer body are solid bronze. The plunger is 2½ inches in diameter and is outside packed, so that it is not necessary to take the pump apart to re-pack it. The air chamber is extra large, 3 x 30 inches, making it easy to maintain high pressure. The agitator is operated by the pump lever and keeps the solution well mixed.

The "Bordeaux" is a brass pump for garden or greenhouse work. It is fitted with Brass Ball Valves which are proof against the action of acids and oils. Pump is intended to rest in pail, with Malleable Iron Foothold outside.

All of the above pumps are also suitable for handling Whitewash and Cold Water Paint.

"Pomona"	Outfit "C," Pump fitted with agitator and one lead, 15 feet, ¾-inch discharge hose with Mistry Jr. spray nozzle. Mounted on end of barrel.	Price \$32.00
"Pomona"	Outfit "D," Pump fitted with agitator and two leads, 15 feet each, ¾-inch discharge hose with Mistry Jr. spray nozzles. Mounted on end of barrel.	Price \$37.00
"Fruitall"	Outfit "C," Pump fitted with agitator and one lead, 15 feet, ¾-inch discharge hose with Mistry Jr. spray nozzle. Mounted on end of barrel.	Price \$24.00
"Fruitall"	Outfit "D," Pump fitted with agitator and two leads, 15 feet each, ¾-inch discharge hose with Mistry Jr. spray nozzles. Mounted on end of barrel.	Price \$28.00
"Bordeaux"	With 3 feet of ¾-inch discharge hose and Fig. 81 "Seneca" Nozzle.	Price \$ 6.00

Prices subject to change without notice.

Inoculate Your Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches and all other legume crops with

Mulford Cultures

FOR LEGUMES

Small Cost**Large Returns****Easy to Use****No Labor Expense**

Mulford Cultures contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.

Mulford Cultures are scientifically prepared and tested with the utmost care and skill. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

Legumes offer the best-known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton, corn and other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are prepared for

ALFALFA	ALSIKE CLOVER	VETCH	LIMA BEANS
CRIMSON CLOVER	BURR CLOVER	VELVET BEANS	LESPEDEZA
SWEET CLOVER	COW PEAS	SWEET PEAS	BEGGAR WEEED
RED CLOVER	SOY BEANS	GARDEN PEAS	and others
	PEANUTS	GARDEN BEANS	

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

PRICES: 5-Acre Size, \$5.00 (**A Dollar per Acre**)

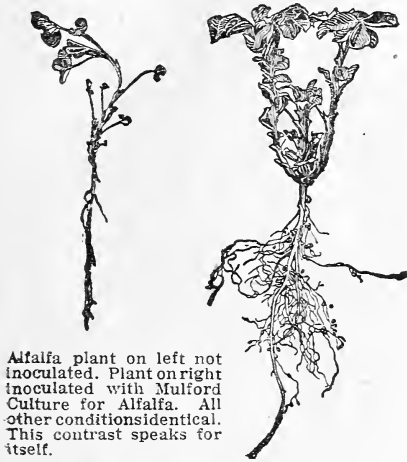
1-Acre Size \$1.50

1-4 Acre Size75

Small Size (Supplied only in four varieties, for Garden Peas, Garden Beans, Lima Beans and Sweet Peas)35

These prices include delivery on freight shipments.

FREE DESCRIPTIVE FOLDER SENT UPON REQUEST



Alfalfa plant on left not inoculated. Plant on right inoculated with Mulford Culture for Alfalfa. All other conditions identical. This contrast speaks for itself.

FARMOGERM

INCREASES CROP PRODUCTION

Seeds of all legumes—beans, peas, clover, alfalfa and related crops—will yield far better if inoculated with Farmogerm, and in addition leave in the soil a heavy deposit of nitrogen which benefits all succeeding crops. Farmers and gardeners who have used it would not be without it.

Because of the method of sealing the bottle—a patented stopper which admits filtered air and keeps out all impurities—Farmogerm is just as good in five years as when first bottled. Other inoculants get weaker each day—Farmogerm always has its full strength. Just add water and shake the bottle and sprinkle over the seeds as directed. Your crop will benefit beyond your expectations.

PRICES, REDUCED

A special composite culture is prepared for peas, beans and sweet peas—1¹/₄ acre size only. You'll get more peas and beans and larger sweet peas by using this. Ask for No. 5. Price 50c.

Farmogerm prices are: 1-acre size, \$1.00; 3-acre size, \$2.50; 12-acre size, \$9.00. Full directions accompany each bottle.

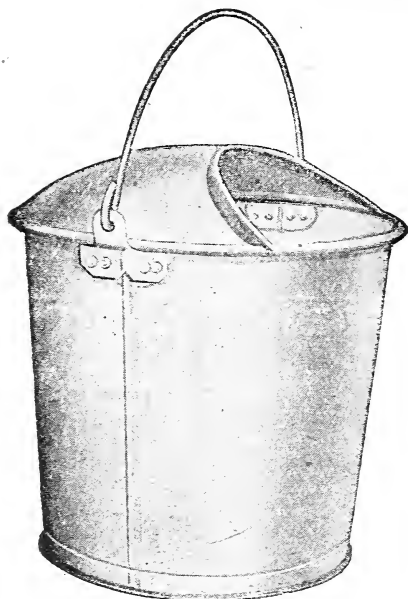


Alfalfa plant on left not inoculated. Plant on right inoculated with Mulford Culture for Alfalfa. All other conditions identical. This contrast speaks for itself.

MILKMEN AND DAIRY SUPPLIES.

Quart Milk Bottles, per doz.....	\$1.10	Strainer Pails.....	1.50
Quart Milk Bottles, per gross.....	9.00	Pint Dippers.....	.75
Pint Milk Bottles, per doz.....	.90	Quart Dippers.....	.96
Pint Milk Bottles, per gross.....	7.75	Strainers	\$2.50 to 2.75
Half Pint Milk Bottles, per doz.....	.85	Tin Milk Pails, per doz.....	7.00 to 9.00
Half Pint Milk Bottles, per gross.....	8.00	Tin Milk Pails, all sizes.....	.75c to 2.75
Milk Cans, 50-quart.....	6.00	Sprinkling Pots, all sizes.....	.35c to 2.50
Milk Cans, 40-quart.....	5.00	Excelsior Strainers.....	3.75
Milk Cans, 30-quart.....	4.00	"Our Own" Strainers.....	2.50
Milk Cans, 20-quart.....	3.50	Aerators11.00 to 15.00
Milk Caps, per 1000.....	.60	Sap Buckets.....	.30
Wholesale Cans.....	\$1.50	Sap Spouts at.....	.5cc

LISK'S SANITARY PAIL



This Sanitary Pail combines nearly all of the good points that are contained in the many kinds put on the market in recent years, and is highly recommended by the Boards of Health and the State Milk Inspectors. A trial will convince. Price \$3.00.

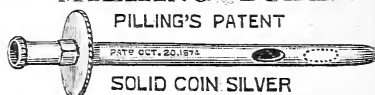
MILK FEVER OUTFIT.

For Sterilized Air Treatment.

This treatment has cured 97 per cent. of all cases treated. This treatment is recommended by the Bureau of Animal Industry, United States Government, Department of Agriculture.

The outfit consists of the instrument, a roll of tape, a package of carbolized cotton. Full directions, neatly packed. Price, \$3.00 net.

MILKING TUBES.



Full directions with each tube. 75c to \$1.50 each
The Boston Milking Tube, 35c.

SCALES.

Dairy Scales \$4.00 to \$4.50. Platform Scales \$25.00 to \$35.00

RICE'S CALF, WEANER AND SUCKING COW MUZZLE.

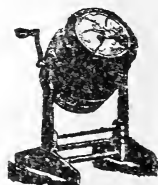
For preventing Calves and Cows sucking themselves or each other.

- No. 1.—For Calves till 1 year old, 70c, by mail postpaid 75c.
No. 2.—From 1 to 2 years old, \$1.10, by mail postpaid \$1.15
No. 3.—For full grown animals and self suckers, \$1.50, by mail postpaid, \$1.55.

BARREL CHURNS.

- No. 0—4 gallon, will churn 2 gallons....\$ 8.00
No. 1—10 gallon, will churn 5 gallons.... 9.00
No. 2—15 gallon, will churn 8 gallons.... 10.00
No. 3—20 gallons, will churn 10 gallons.... 11.00
No. 4—25 gallon, will churn 12 gallons.... 14.00
No. 5—30 gallon, will churn 14 gallons.... 15.00

Oak Dash Churns, Stone Dash Churns, Dog Powers, Butter Workers, Skimmers, Butter Carriers, Ladles, Richardson's Butter Color, Butter Prints, Floating Glass Thermometers, Dairy Thermometers, Cream Gauges, Babcock Butter Tester.



MILK BOTTLES.

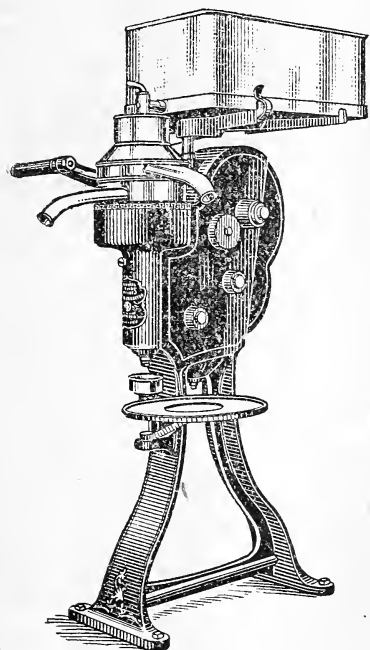
- 1 quart.....\$1.10 per doz.
1 pint..... .90 per doz.
½ pint..... .85 per doz.
Special price in gross lots.

MILK CAPS.

Per thousand, 50 to 65c

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

UNITED STATES CREAM SEPARATORS



America's Best Plus Denmark's Best

The attention of dairymen everywhere is called to the new "U. S." Disc Bowl—an important addition to the "U. S." Cream Separator line, of exceptional interest to thousands of dairymen who prefer a disc type skimming device. The new "U. S." Separator is continued the same famous "U. S." construction, time tested for a score and more years—never radically changed—best without question; to which superior construction a new Disc Bowl of surprising efficiency is added. It is not, therefore, the "U. S." Cream Separator as a whole that calls for an introduction; it is an important improvement.

No. 30, guaranteed capacity	200 lbs.....	\$ 65.00
No. 29, guaranteed capacity	300 lbs.....	75.00
No. 28, guaranteed capacity	350 lbs.....	85.00
No. 27, guaranteed capacity	500 lbs.....	95.00
No. 25, guaranteed capacity	750 lbs.....	105.00
No. 24, guaranteed capacity	1000 lbs.....	130.00
No. 22, guaranteed capacity	1350 lbs.....	200.00

U. S. Cream Separators hold the World's Record for closest skimming in fifty consecutive runs with milk from ten different breeds of cows.

COWS' RELIEF

We offer this wonderful remedy and recommend it strongly.

O. H. Cows' Relief, large, per box.....	\$1.20
O. H. Cows' Relief, small, per box.....	.60
O. H. Cow Tone, large, per box.....	1.20
O. H. Cow Tone, small, per box.....	.60
O. H. Cow Tone, 25-pound box.....	5.00
O. H. Cow Tone, 50-pound box.....	10.00
O. H. Calves' Cordial, per box.....	.75

Kow Cure	Louse Chase
Rice's Calf Weaners	Scab Chase
Cow Remedy	Lice Powder
Worm Destroyer	

PRATT'S

Animal Regulator
Poultry Regulator
Louse Killer
Hog Tonic
Cow Tonic
Healing Ointment
Colic Cure
Heave Remedy
Worm Remedy

DR. HESS'S

Healing Powder
Worm Powder
Heave Powder
Dip and Disinfectant
Poultry Pan-a-ce-a
Louse Killer
Stock Tonic

CHAMPION MILK COOLER AERATOR

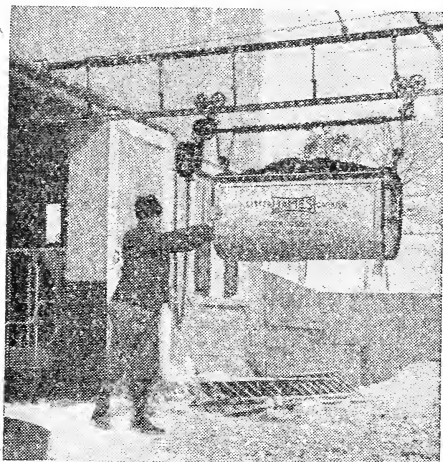
Automatic, Simple, Efficient, Durable.



2—18 quarts, 10 to 25 cows, 3 milkers.	\$10.00
3—34 quarts, 25 to 50 cows, 5 milkers.	12.00
4—52 quarts, 50 to 100 cows, 8 milkers.	15.00

THE JAMES WAY James Watering Buckets

Every dairyman now realizes that regardless of how well the cow may be fed and cared for in every other way, the maximum yield of milk cannot be secured unless she has plenty of water. The old way of watering once a day out in the yard is the most expensive that could be devised. The cows become very thirsty, and drinking excessively of cold water, become chilled, and are forced to use up energy getting warm that should have been used in making milk. But the increase of milk yield is not the only advantage. There is also the saving of time and labor of the attendants, and, as compared with other methods of watering in the barn, a saving of water. More important is the prevention of the spreading of contagious diseases through the water, for with the James Watering Buckets each cow is furnished pure, fresh water, direct from the protected supply tank.



THE JAMES CARRIERS

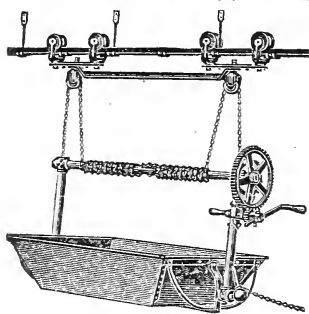
James Carriers are "long life" carriers—built to stand the strain and wear of years—made to forestall breakages and repairs—made to save the maximum amount of work and time. We are proud of them, believing that each is the best that can be built to meet the specific purposes for which it is designed. And in this belief, we are backed up by hundreds of enthusiastic, commendatory letters.

Stanchions, Stalls, Litter Carriers, Water Buckets

This line is made by the firm of Glor Bros. & Willis, who have supplied this section with many outfits, and which have proven very practical and satisfactory to the users.

Prices will be given upon application.

"THE NEW MODERN" LITTER AND FEED CARRIERS



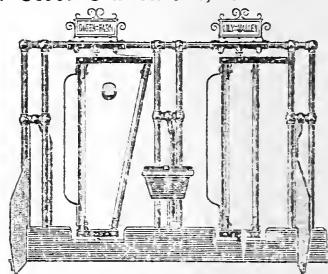
New Modern Sanitary Stalls and Stanchions are the most practical and up-to-date time, money and labor saving fixtures on the market. Should be in every stable. Soon pay for themselves. All our goods are made of the very best material by workmen who take pride in their work. With ordinary usage they will last a life time. Carriers equipped with Crank and endless chain life.

"NEW MODERN" BARN EQUIPMENT

Sanitary Steel Stalls; Wood and Steel Stanchions, Chain or Swivel Hung; Water Basins with Covers, Stable Ventilators, Partitions, Bull and Calf Pens, Adjustable Steel Gates, Manger also Testing Stalls.

Some Patrons Say:

"Shall install in other buildings."
"Most labor-saving machine on the farm."
"See none other I like so well."
"Don't see how we got along without it."



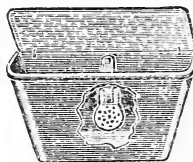
Crumb Stanchion

Saving of time and cow-comfort mean bigger profits. Know that your cows are held securely without annoyance to you or them—in new Modern Wood Stanchion, chain hung. Latch holds stanchion in position when open. Perfect freedom of head.

Let us send you free catalog on our Stanchions, Litter and Feed Carriers, Water Basins and other "New Modern" stable equipment.



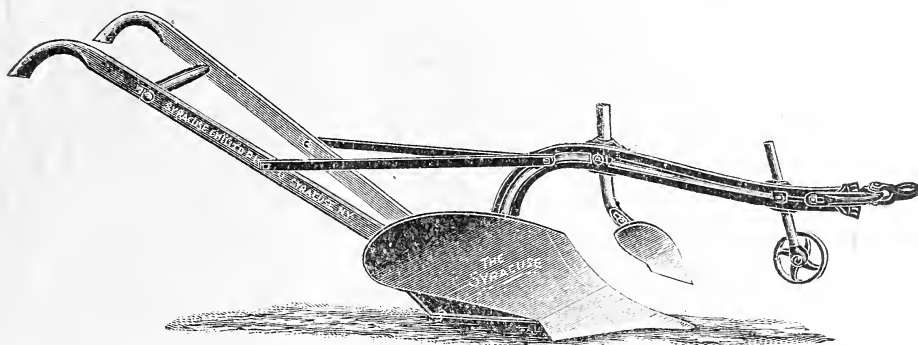
"New Modern" Watering Basin



All dairymen say that cows supplied with fresh water give 5 to 10 per cent more milk. Therefore our watering device (Basins, Pipe Line and Float Tank) is a Profitable Investment. Made of cast iron with round corners and smoothed bottom. Galvanized Iron Cover. Thoroughly coated. Our "New Modern" Swing Stanchion, with our watering device is the most up-to-date outfit on the market. Write for Free Catalog.

SYRACUSE CHILLED PLOWS

Steel Beam



Made in Three Sizes—Nos. 401, 402 and 403

Syracuse chilled plows are regarded as the highest-grade chilled plows made. They are steady running, easily handled and have superior turning qualities.

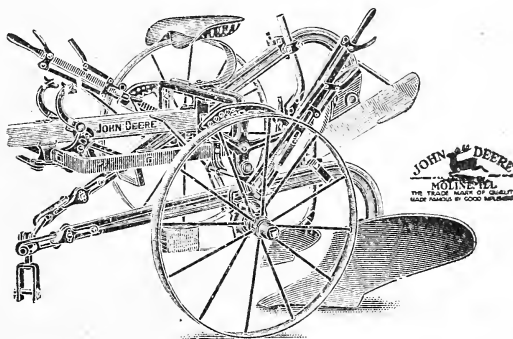
With the detachable shin piece—a sharp cutting edge easily can be maintained at small cost.

These are the plows with the perfect fitting shares—and extra Syracuse shares always fit.

No. 401 cuts furrow 12 to 15 inches wide, 5 to 8 inches deep.	Price.....	\$23.00
No. 402 cuts furrow 11 to 13 inches wide, 5 to 7 inches deep.	Price.....	22.00
No. 403 cuts furrow 9 to 12 inches wide, 4 to 6 inches deep.	Price.....	21.00

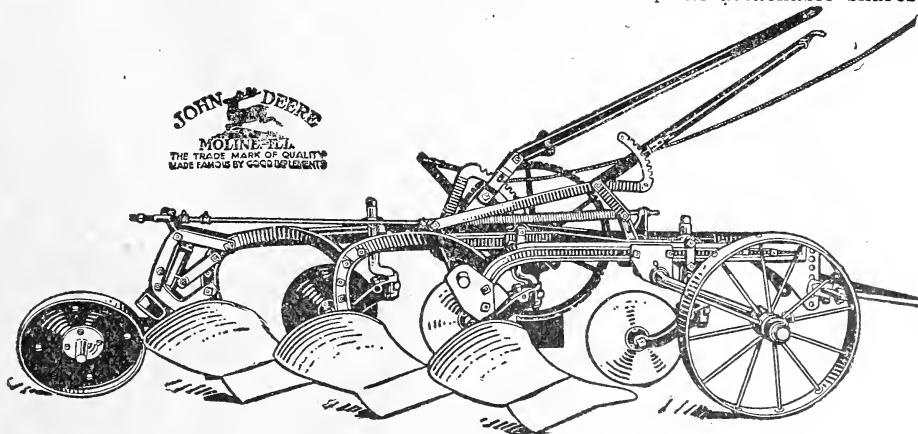
JOHN DEERE TWO-WAY SULKY PLOW

Just the plow you need for work on hill-sides as well as on level fields and in stony land. Wide tread prevents tipping. Each bottom is independent of the other, with separate depth adjusting lever and lifting device. Horse lift. Patented automatic foot frame shift makes it easy to regulate width of furrow and plow around curves. Clevis is always ahead of the working bottom. Adjustable jointers, with no hole through the beam to weaken it. Your choice of four types of bottoms. Price, \$100.00.



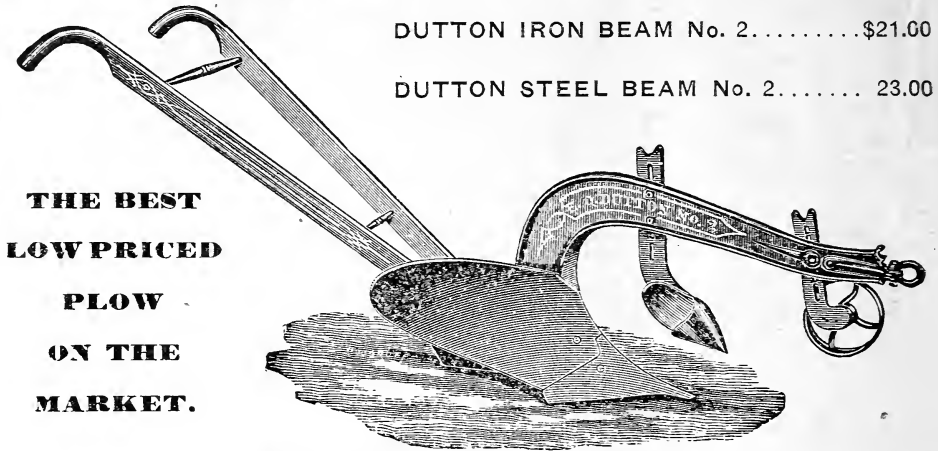
JOHN DEERE NO. 5 TRACTOR PLOW

For use with any standard tractor—the hitch is easily adjustable. Furnished with either two or three bottoms. High and level power lift—a simple raising and lowering device operated by a rope from the tractor. Self-locking rear wheels makes it possible to back the plow. All steel and malleable construction; beams are guaranteed not to bend or break; plenty of clearance under the beams. Equipped with John Deere bottoms especially adapted to our local conditions, also the famous John Deere quick-detachable shares.



PRICE \$185.00

Dutton Steel and Chilled Plows

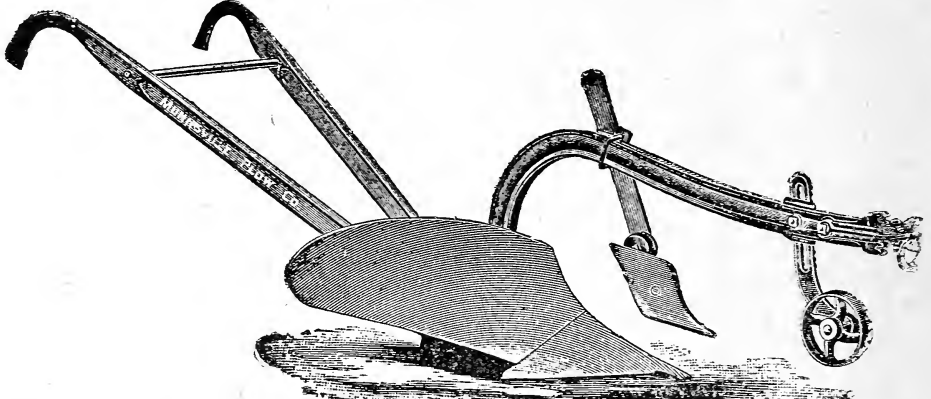


DUTTON IRON BEAM No. 2.....\$21.00

DUTTON STEEL BEAM No. 2..... 23.00

**THE BEST
LOW PRICED
PLOW
ON THE
MARKET.**

MUNNSVILLE PLOWS No. 10, All Steel Plow—"The Big Seller"



This Plow is long on the run with a high moldboard, of a shape that insures easy draft, good cleaning qualities and pleasing appearance. Price \$24.00.

Wood Beam Chilled Plow, \$20.00.

Wood Beam One-horse Plow, \$15.00.

Bargains in Tools and Implements

We offer at an especially low price the following list of tools and implements—every one of which is a genuine bargain and can be seen at our warehouse. Some of these have been somewhat used.

- 1 Dray Cart, Ball-bearing
- 1 Covered Cutter
- 1 Top Buggy
- 1 Family Carriage
- 1 3-horse Gas Engine
- 1 Renfrew Portable Weighing Scale on wheels. \$55.00.
- 2 Barrel Spray Pumps
- 2 Hurst 4-Row sprayers
- 1 Hoosier 2-horse Corn Planter (used once)
- 1 Perry Spring Tooth Harrow (Wood frame)
- 1 Clarks Cutaway Harrow A-4
- 1 Clarks Cutaway Harrow A-5
- 1 Clarks Cutaway Harrow A-6
- 2 Steel Land Rollers
- 1 Hoosier 2d Corn Planter. 2-horse
- 1 Reliance Farm Wagon. new
- 17 Hamilton Galvanized Coops

- 1 Steel Disc Smoothing Harrow
- 1 Ford Power Attachment
- 1 14-16 Adriance Disc Harrow
- 1 Prout Hoe
- 1 Webber Fanning Mill. second-hand
- 1 John Deere Corn Sheller
- 1 Darnell Furrower and Marker, \$22.00
- 1 3-Section Steel Roller
- 1 Ridging Roller
- 6 Galvanized Hog Troughs
- 1 Munnsville No. 1 Plow. wood beam
- 1 Munnsville No. 2½ Plow. 1-horse, chilled
- 1 Peekskill No. 21 Plow. wood beam
- 2 Bullard Tedders. 6-fork
- 1 Portable Platform Scales. 1 lb. to 2000 lbs., \$55.00
- 1 No. 3 Hurst Sprayer, \$35.00
- 1 No. 4 Hurst Sprayer, \$40.00
- 1 Keystone Weeder
- 1 Cultipacker

ROUND - POINT, SPRING -TOOTH WEEDER

FOR EARLY CULTIVATION

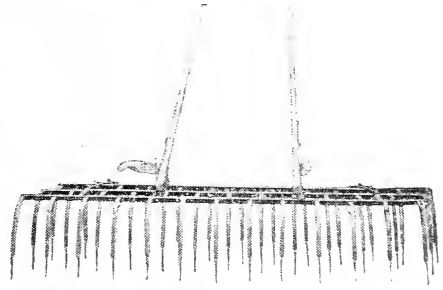
FOR SHALLOW CULTIVATION

FOR PERFECT CULTIVATION

This weeder has thirty-nine round-point spring teeth, arranged in three lines and securely fastened to angle steel bars. It is 7½ feet wide and gives perfect results in operation. Handles and thills are adjustable for height.

This tool is worked on the row and between the plants. Does not hurt young plants, such as corn and potatoes, it can be run in any direction over the field. Takes out the small weeds and forms a dust mulch close up to the plants, insuring strong, healthy, vigorous start.

No. 397, 7½ foot, 39 teeth.....Price \$15.00



ACME PULVERIZING HARROW AND CULTIVATOR

STANDARD 2-ROW RIDING HARROW

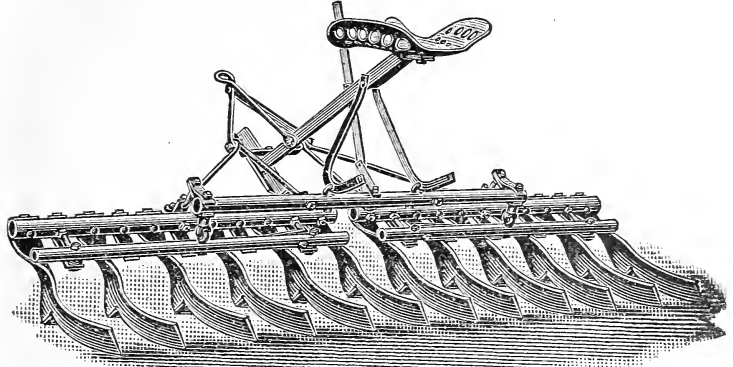
Lightest Riding Harrow sold anywhere. Low in price, light in draft, most easily handled.

Cuts, crushes, turns, smooths and levels. all in one operation.

6 ft. 6 in. Two Horse.

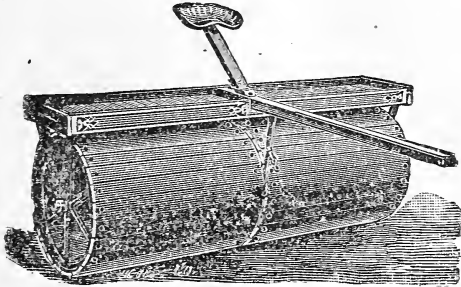
Size No. 23.

Price \$26.00



LAND ROLLERS

Steel Roller, 24 inch, two sections with closed ends	\$40.00
Three Section	45.00
Wood Stave Roller, Two Section	40.00

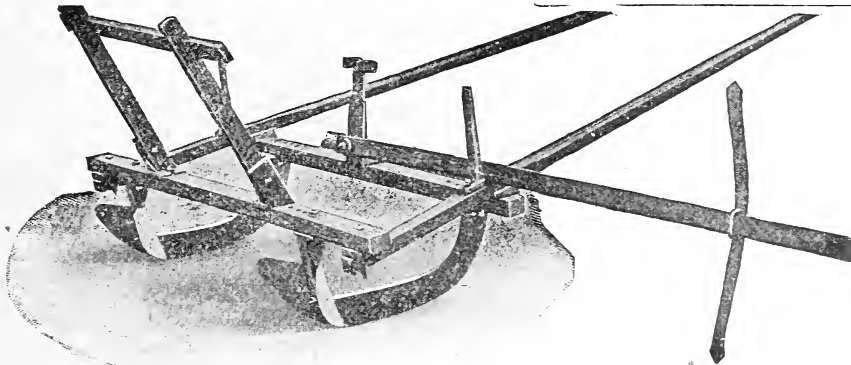
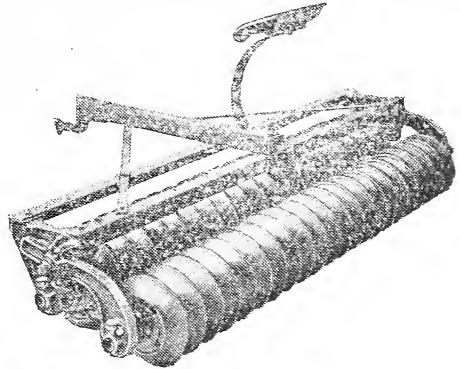


CULTIPACKER

BRILLION ROLLER AND RIDGING ROLLER COMBINED

Made in several sizes and prices. Worth a dozen rollers. Ask any western farmer what he thinks of it.

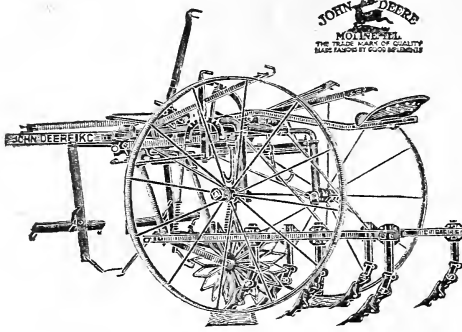
THE IMPROVED THREE-ROW CORN MARKER



This cut shows our Steel Wing Marker. It is adjustable to mark any width row and any depth desired.

Two-Row Marker for one horse, \$12.00.

Three-Row Marker for two horses, \$16.00

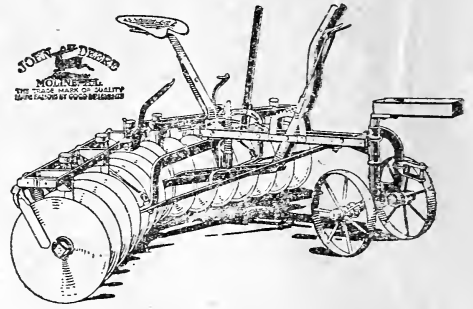


Deere Pivot-Axle Cultivator

The Cultivator That Does All Kinds of Work and Does It Right.

Arch hatch 32-inch clearance.
Hitch pulls directly on the rigs. This helps penetration and relieves neck weight.

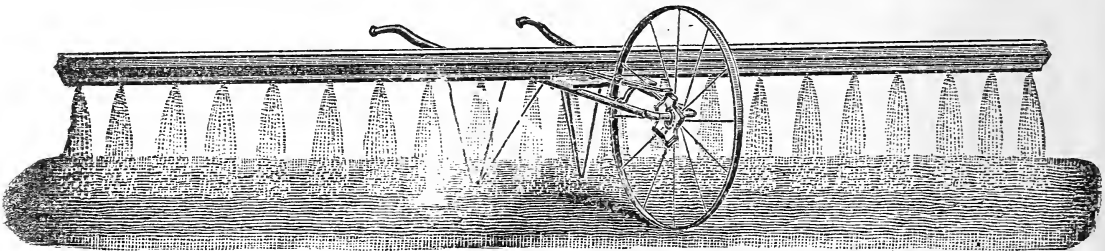
Note convenient lever with which rigs may be adjusted in width. Adjustment may be made while cultivator is at work. A row of half corn and half tobacco can be cultivated without stopping the team.



DEERE DISC HARROW

The last word on Disc Harrow making.
Easy on the horses; no collar chafing.
Pole Truck guides and controls with ease and comfort to team and driver.

WHEELBARROW SEEDERS



WITH WOOD OR IRON FRAME.

They can be worked by anyone who can run a wheelbarrow,

Price, 14-foot, \$11.00; 16-foot, \$12.00.

THE CYCLONE SEED SOWER

This is the cheapest Crank Seeder on the market, and equal to the best for quality of work it does and durability. Don't pay \$5.00 for a seeder when you can get its equal for less money.

Will sow Wheat, Oats, Rice, Flax, Millet, Turnip Seed, Clover Seed, Grass Seed, including Light grasses; in fact any kind of Seed broadcast. Also Plaster, Fertilizer, Salt Ashes, etc.

They save one-third seed and two-thirds labor.

CRANK SEEDERS.....\$2.75



Clark

"CUTAWAY"

DOUBLE ACTION DISC HARROW

The farmer who realizes the importance of stirring and pulverizing the soil so that the sun and air and moisture can reach every particle is the man to whom the CLARK'S CUTAWAY Double Action—the original double action—means something more than just a disk harrow. No other disk harrow of any make or style even approaches the CLARK'S CUTAWAY Double Action for pulverizing the soil, for saving time, for saving horses, for giving long service. Its superiority for pulverizing the soil and giving long service has seldom been questioned.

The rigid main frame is the all-important feature in any double acting harrow. This frame holds the rear gangs so that the rear disks cannot slew to the furrows cut by the fore disks, but instead cut midway between where the fore disks have cut, thereby making the machine pulverize every inch of the soil to the full depth to which the disks run.

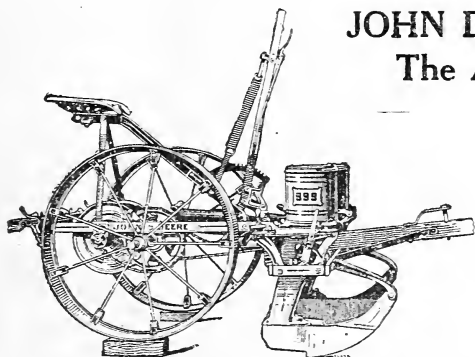
The distance from the hitch to the extreme rear end of the harrow is but a little more than one-half of that on the tandem or trailing harrows, which fact makes the draft from 25 to 50 per cent. less than in other harrows of corresponding size. By the elimination of the tongue truck we save the buyer from \$5.00 to \$6.00.



A-4 Double Action Cutaway, 2-horse hitch.....	\$60.00
A-5 Double Action Cutaway, 4-horse hitch.....	75.00
A-6 Double Action Cutaway, 4-horse hitch.....	83.00
Bush and Bog Plow.....	90.00
Clark's Grove Harrow, 10—14-disks.....	26.00

JOHN DEERE No. 999 CORN PLANTER

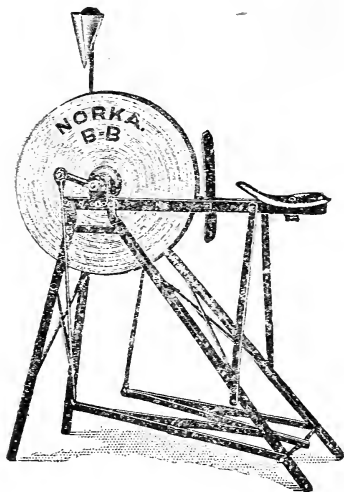
The Accurate "Natural Drop" Planter



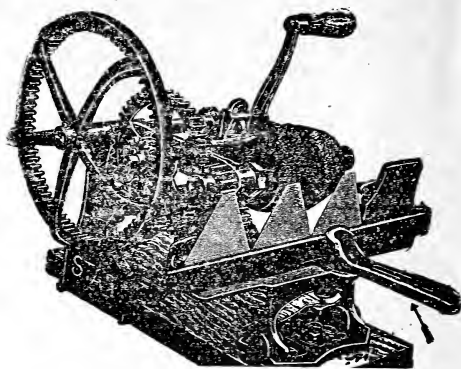
use and both can be operated at the same time corn is planted. Special plates for a great variety of seeds. Price \$102.00 complete. Less Fertilizer attachment, \$90.00.

Field tests under varying conditions have proved conclusively that the John Deere No. 999 Planter is accurate. It is equipped with John Deere Natural Cell Fill, edge-delivery seed plates, so shaped that one kernel enters each cell without fail and the desired number is dropped in the hill. Change in drop to 2, 3 or 4 kernels per hill can be made instantly without stopping the team, and drill distances can be varied just as easily. Quick change hilling to drilling and back to hilling. Ask us to show you the entirely enclosed gear arrangement, and the convenient underhung reel. Fertilizer or pea attachment, or both, can be furnished for

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

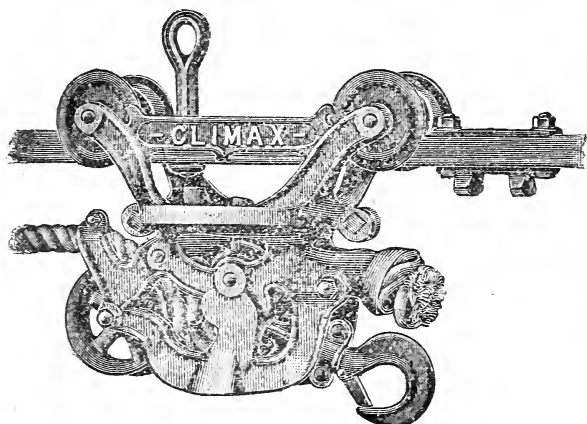


Sterling Grindstone.....	\$10.00
Sampson No. 1 Grindstone.....	8.50
Sampson No. 2 Grindstone.....	8.00
Sampson No. 3 Grindstone.....	7.50



Sickle Grinder.....	\$5.50
With foot power.....	8.50

The great time and labor saver. Saves horse power and lengthens the life of machinery.



THE NEY CLIMAX OPEN THROAT CARRIER.

With this carrier, it is possible to fill the mow closer to the comb of the roof than with any other carrier on the market. The throat has an exceptionally large opening, and the simple locking mechanism is so arranged that the lifting head or pulley locks directly on the sides or frame of the carrier, not depending on separate dogs or locks to hold the load. It is constructed and operated without the use of springs, and negages projections upon lifting pulley in a line with axis of pulley. This permits the pulley to swing very near the track and enables the carrier to work under conditions where any other carrier would necessarily fail. Price, \$9.00.

CARBORUNDUM SCYTHE STONES

Do away with the grinding of a scythe altogether. They produce a clean, sharp edge and do it faster and easier than it could be done on the best grindstone ever made.

Carborundum Scythe Stones must not be classed with the ordinary scythe stones that you have been accustomed to. The old style stones are merely sandstone and are of very little use. They simply RUB the edge into shape—Carborundum CUTS it—cuts it fast and clean and puts an edge on your scythe that will be a revelation to you. **Price, 35c.**

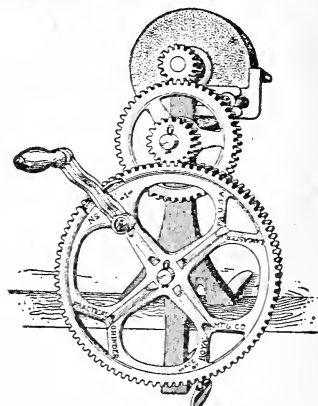
REVERSIBLE HAY CARRIERS. For either Steel or Wood Track.

Light and Durable, Runs either way on the track without changing.

PRICE, \$9.00

Ney Hay Car, steel or wood track.....	\$9.00
Climax Car, open throat.....	9.00
Double Harpoon Forks.....	2.50
Double Harpoon Alfalfa Fork.....	5.00
Steel Track, per foot.....	.23
Pulleys in Wood and Iron, each.....	50c to 1.50
Track Eyes, dozen.....	2.00
Brackets, doztn.....	1.00
Floor Hooks, each.....	.20
Tedder Teeth, each.....	.35
Horse Rake Teeth.....	.35
Rope, best Manila, at lowest prices.	
All Steel Hay Tedder.....	\$68.00 and \$75.00
Osborne Rake.....	\$50.00 to \$55.00
New Yorker Horse Rake.....	\$42.00 to \$45.00
We carry Haying Tools of all kinds.	
Also Teeth for all Rakes and Tedder.	

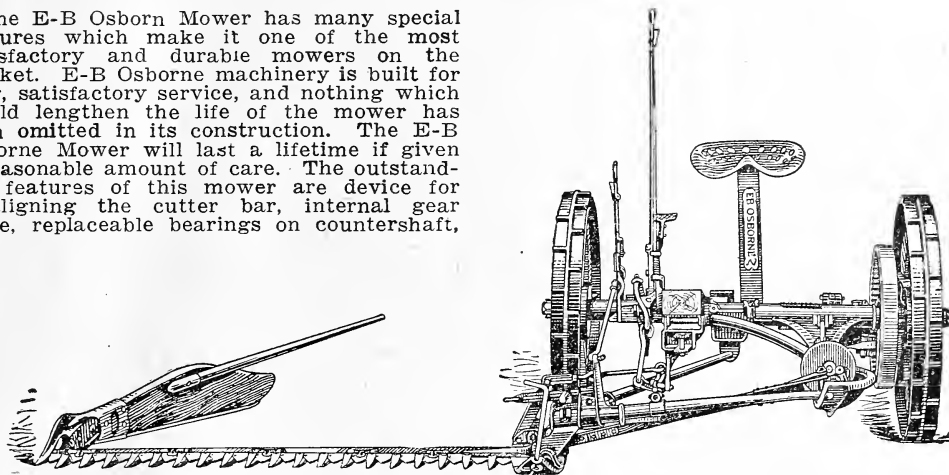
CARBORUNDUM GRINDSTONES



This has taken the place of all Grinding Stones where quick results are desired. Prices based upon size, \$5.00 to \$6.00.

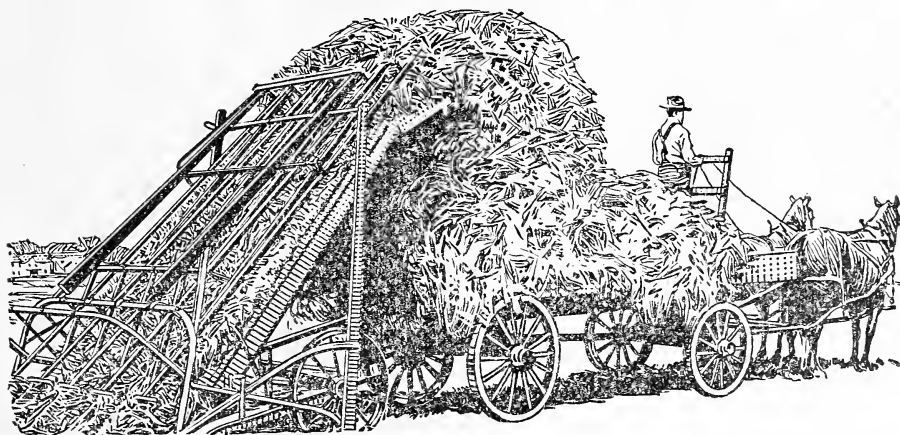
THE E-B OSBORNE MOWER

The E-B Osborn Mower has many special features which make it one of the most satisfactory and durable mowers on the market. E-B Osborne machinery is built for long, satisfactory service, and nothing which would lengthen the life of the mower has been omitted in its construction. The E-B Osborne Mower will last a lifetime if given a reasonable amount of care. The outstanding features of this mower are device for re-aligning the cutter bar, internal gear drive, replaceable bearings on countershaft,



and great range of tilt of the cutter bar. These features make the E-B Osborne Mower the simplest to operate, the longest lived, and the most satisfactory mower on the market. It is made in both regular and vertical lift.

THE E-B GEARLESS HAY LOADER



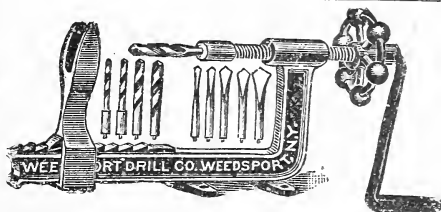
The E-B Gearless Hay Loader is in reality a one-man loader. It will take up heavy windrows and load a high load. For loading alfalfa and clover the E-B Gearless Loader gives splendid satisfaction loading the hay without jarring off the leaves, the most valuable part. The E-B Gearless Loader is simple and strong, and saves time, labor and money.

The hay may be allowed to pile up at the rear of the load to be spread later with little effort. The E-B Gearless is mechanically correct. All the power for the elevator is derived from the main wheels. There are no gears or sprocket wheels and chains to wear. The teeth make a long sweep over the surface, picking up the hay as gently as possible. The loader is quickly and easily attached and detached behind the wagon.

Tiger Transplanter

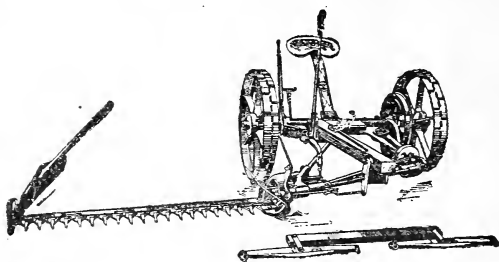
Sets all kinds of plants like cabbage, tobacco, etc. The success of plant setting is assured by its use. The most successful planter on the market. Made near by, and all parts supplied on a few hours' notice. Price \$85.00.

FARMERS' COMBINATION CLAMP AND DRILL.



\$2.75 with Diamond Point Drills. Extra Drills 10c each
 \$3.25 with Syracuse Twist Drills. Extra Drills 25c each
 The lowest priced first-class article or its kind on the market. Can be used as a wood clamp, also a bench vise or hand drill.

DAIN VERTICAL LIFT MOWER



feature.

When the cutter bar sags back, which will happen on any machine, it is very easily brought forward by simply taking out a cotter key and tightening the large burr on the end of the drag bar the cutter bar can be drawn forward, fully compensating the wear.

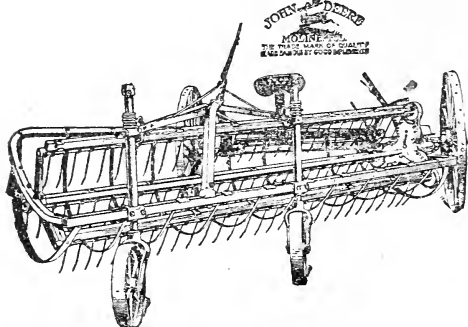
Made in 4½, 5 and 6 foot sizes.

The only successful vertical lift Mower on the market. The main frame is one solid, unyielding piece of iron. This insures perfect meshing of the gears and holds all parts securely in place. The gears are compensated, that is, the side thrust of the bevel wheel is resisted by the pressure on the spur pinion. One counteracts the other, equalizing the wear and strain upon the bearings. The arrangement of these gears is unique and there is less wear on this part of the Dain Mower than on the same parts on any other machine built.

The draft rod makes possible the transferring of the power further toward the cutter bar when mowing heavy grass. This is a valuable

JOHN DEERE-DAIN SYSTEM RAKE

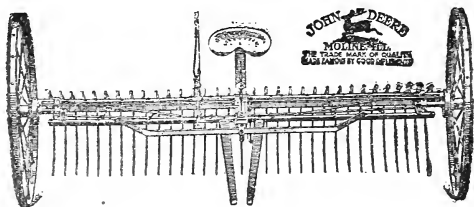
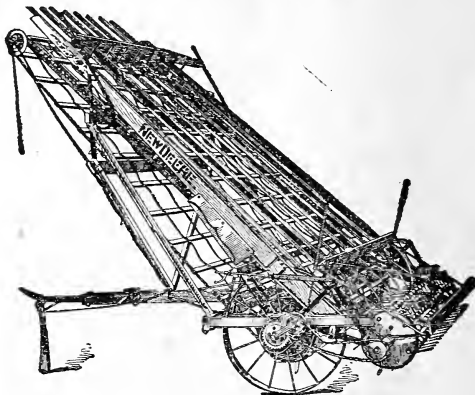
THE RAKE WITH THE INCLINED FRAME, VERTICAL LIFT AND CONVENIENT LEVERS



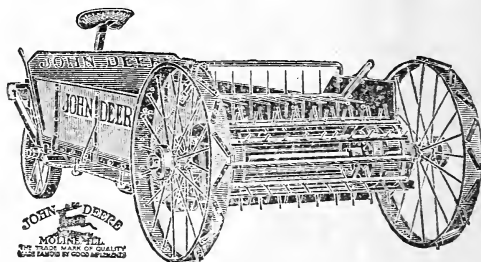
The rake that enables you to make higher-price hay by curing it "Nature's Way"—air-curing it. With this rake you can follow the mower closely, rake while leaves are still active; place the hay on clean stubble in medium size, loose windrows, the leaves inside and majority of the stems outside to prevent sun scorching and preserve the leaves. In case of bad weather, windrows can be turned over to prevent damage to the hay. Inclined frame gives additional capacity just where needed; vertical lift—both ends of rake can be adjusted to gather all the way on uneven ground; convenient levers—add adjustments can be made from the seat.

NEW DEERE DOUBLE CYLINDER HAY LOADER

The New Deere Double Cylinder Hay Loader successfully handles anything from the lightest swath to the heaviest window. The rear or gathering cylinder is far enough back of the frame to get all the hay, but still leave the trash. This cylinder moves slowly, thereby handling the hay without damaging the foliage. This feature also makes it valuable in handling beans. Because all parts move slowly the loader is light draft and durable. The wheelbarrow type of mount whereby the load is carried directly over the wheels is an exclusive feature and prevents sagging of the axle. The carrier is prevented from running off the rollers by means of a flange and an adjustable bracket prevents sagging. Long life and ease of operation is assured in using this loader. Furnished in 6 and 8 foot widths. All repair parts supplied promptly.

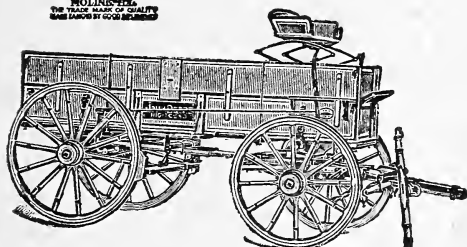


John Deere Self Dump Steel Horse Rake, made in 8, 9, 10 and 12-ft. 20 to 40 teeth. Ask for prices.



MANURE SPREADERS

John Deere Low Down Steel Frame only. Spreader with Beater on the axle. Ask for prices.



JOHN DEERE WAGONS

Heavy malleable fifth wheel bolster plate with corrugated coupling. Skeins extra heavy of special sand and dust-proof pattern. Hand split hickory axles; extended circle irons; square wood front hounds; full clipped gears; full size reach. Bolster stakes 8-inch or 13-inch over all, with rings; heavy malleable pole housing on slip tongue wagons; deep hind bolster; singletrees, strap and hook pattern; heavy cast iron reach box.

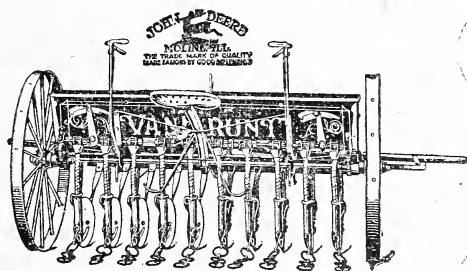
Van Brunt Double Disc Drill

For more than half a century the name Van Brunt has stood for the best in drill construction. Van Brunt Drills have been the leaders. From the first, all effort has been two-fold—first, to make a perfect seeding machine, and, second, to construct that machine so as to give long life and constant service. Van Brunt Drills today fulfill this ideal.

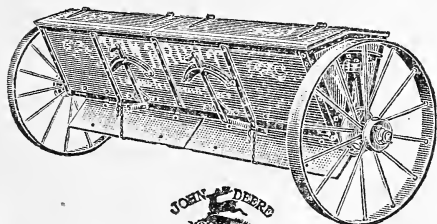
ADJUSTABLE FORCE FEED

For uniform and successful planting, the feed on a drill must be a positive and absolute force feed that will plant any seed in even quantities at all times.

Van Brunt Double Discs are guaranteed to work in any soil capable of being seeded and not to clog or choke up in mud, gumbo, sticky or trashy ground.



SALT LIME AND FERTILIZER BROADCASTERS

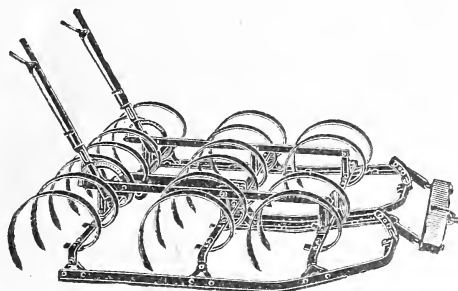


These Broadcasters are constructed principally to sow Lime; they also handle perfectly all kinds of fertilizers and other soil beneficiaries. All soil can be made more productive either by the application of some form of Lime to neutralize the free acid therein.

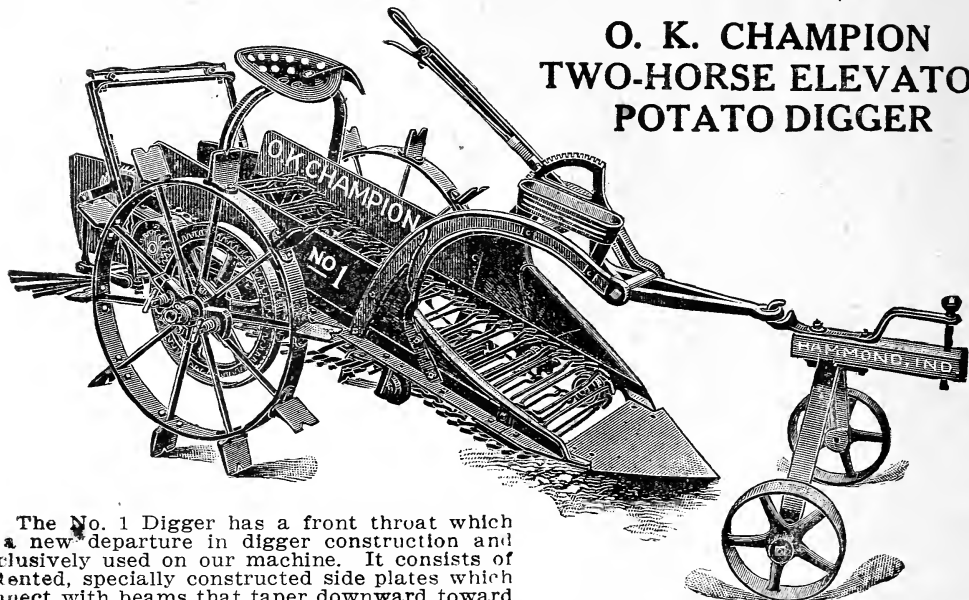
Van Brunt Broadcasters are strong machines. Box rooms ten bushels. Force feed is attached directly on the main drive axle. No gears to freeze, strip or break. Ratchet wheels. Quantity can be changed instantly by one lever in center of hopper.

SPRING TOOTH HARROWS

In 15, 17 and 25-tooth sizes; also in one-horse size at special prices.



O. K. CHAMPION TWO-HORSE ELEVATOR POTATO DIGGER



The No. 1 Digger has a front throat which is a new departure in digger construction and exclusively used on our machine. It consists of patented, specially constructed side plates which connect with beams that taper downward toward the front, curving outward along the upper edges and along the top flare. This makes the throat opening wider than the body of the machine, allowing the dirt to spread and lose itself more freely when first entering. It also forces the vines and weeds to slide up more easily and overcome the serious trouble of clogging. The inward extending base to which the shovel is bolted makes the opening absolutely rigid and strong. We have sold nearly 600 of these wonderful No. 1 Diggers in this vicinity. Price \$100.00.

O. K. CHAMPION POTATO DIGGER NO. 3 WITH EXTENSION ELEVATOR

This Digger is constructed with the view of producing the best results with the least mechanism so as to avoid complication and cause as little friction as possible. It is amply strong for any soil or condition of field; its capacity sufficient, having over fifteen square feet of separating space. Its simplicity is one of the main features because it lessens the possibility of wear and breakage. Price, \$125.00.

Mr. F. H. Ebeling, Syracuse, N. Y.

Dear Sir:—In regard to the Champion Potato Digger, would say, I bought one of your No. 1 Champions about eight years ago and I have used it ever since with the best of success.

Have dug from 25 to 40 acres of Potatoes every year. Also, have been able to dig potatoes in the afternoon when it rained in the forenoon, and when the water was standing in the rows. This is something that no other digger in my neighborhood is capable of doing. While my neighbors' diggers were all at standstill—my digger was doing fine work after the heavy rains.

The expense for repairs in those eight years has amounted to less than \$5.00.

Very truly,

RICHARD J. LONG.

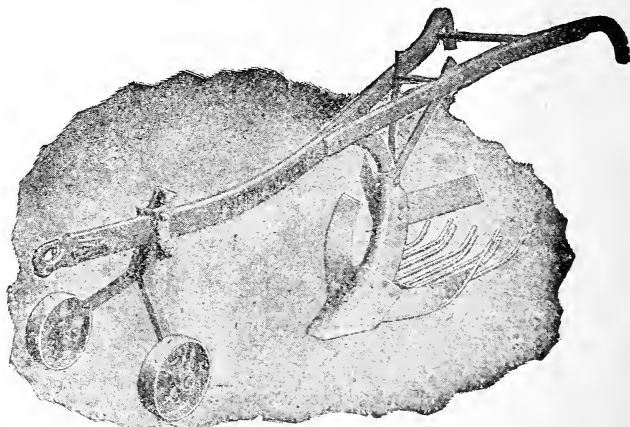
Retail Prices for 1922—F. O. B. Factory

Digger No. 1, 20 inch, with Shaking Fork.....	\$100.00
Digger No. 3, 22 inch, with Extension Elevator.....	125.00
Digger No. 5, 22 inch, with Extension Elevator.....	150.00
Digger No. 6, 22 inch, Engine Drive, without Engine.....	140.00
Seed Potato Cutter.....	6.00
Automatic Planter No. 22, Plain.....	70.00
Automatic Planter, No. 22, Fert.....	80.00
Dial Planter No. 25, Plain.....	100.00
Dial Planter No. 25, Fert.....	115.00
Four-Row Sprayer, Traction Drive.....	110.00
Power Sprayer, complete with Engine and one set spray pipes.....	200.00

"HERCULES" POTATO DIGGER Best and Cheapest

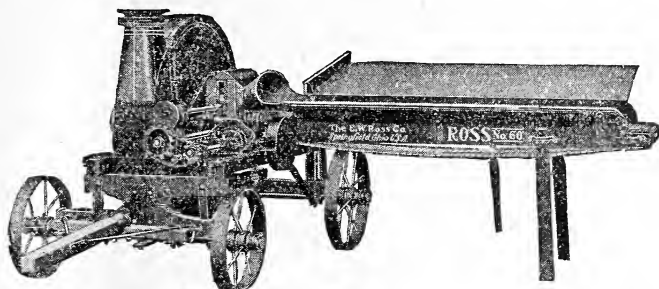
This is the age of progress. Not so many years ago, the farmer used a Shovel Plow to raise potatoes. Today, the enterprising and thrifty farmer uses the "Hercules" Digger, which reaches under the row of tubers and deposits them on top of the ground in full view, ready to be picked up into bags or baskets.

All parts metal excepting the handles. Weighs 94 lbs. Covered by a liberal guarantee. Price \$22.00.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ROSS LOW SPEED LIGHT RUNNING LARGE CAPACITY DURABLE - - - SILO FILLERS



KNIFE ON FLY WHEEL TYPE

Size	Power Required	Mounted	Prices On Legs
No. 30—	4 to 6 H. P. Gasoline.....	\$175.00	\$150.00
No. 40—	8 to 10 H. P. Gasoline.....	250.00	215.00
No. 50—	10 to 12 H. P. Gasoline.....	260.00	235.00
No. 60—	15 to 18 H. P. Gasoline.....	285.00	260.00

Above Prices Are for Complete Ensilage Cutters.

The ROSS is the only Silo Filler on the market equipped with a combination of features consisting of:

"Ball Bearing" End Thrust and Auxiliary Knife Adjustment.

"Three" Adjustable and Self-conforming Main Shaft Bearings.

"6 Fan" Low Speed Distribution Lift Blower.

"Four Sided" Reversible Steel Cutting Bar.

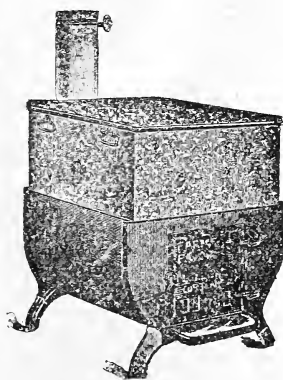
"Start, Stop and Reverse" Lever for Feed Rolls and Traveling Table.

WE OFFER THESE ROSS ENSILAGE CUTTERS AT A SPECIAL CASH PRICE

FARMER'S

FAVORITE

COOKERS



Size boiler. Size Fire Box. Price.

No. 2—	30 gal. 22x24x13½....	24 inches	\$17.00
No. 3—	40 gal. 22x30x14....	30 inches	19.00
No. 4—	50 gal. 22x26x15....	36 inches	21.00
No. 5—	75 gal. 22x48x17....	48 inches	25.00

The Farmers' Favorite is used for a great variety of purposes, such as cooking grain and vegetables for stock and poultry. Heating water for scalding hogs and poultry. Boiling spraying mixture. Heating water on wash day. Heating water for washing dairy utensils. Rendering lard and tallow. sorghum.

Heating drinking water for stock. Syruping down. Boiling elder. Preserving and evaporating fruit. Sugaring off. Boiling sap. In addition to the above, by using a top plate in place of the boiler it converts the cooker into a first-class stove for warming a milk room, hog house, poultry house, cellar or shop. Can you think of any other farm implement that can be used for so great a variety of purposes? The farm equipment is incomplete without one of these cookers.

Add \$6.00 for grate for coal or coke.

The above prices are for the Cooker complete, consisting of stove or fire box, galvanized steel boiler with four handles and cover, one length of 6-in. stove pipe and damper and one 6-in. elbow.



DANA'S STOCK LABELS

Stamped to order with letters and serial numbers.

For Cattle, Sheep, Hogs, Etc.

Cattle Labels.....75c doz., \$4.00 per 100
 Sheep and Hog Labels..50c doz., \$3.50 100
 Punches for Cattle.....\$1.75 each
 Punches for Sheep and Hogs...\$1.50 each
 Bull Nose Punch.....\$1.75 each
 Bull Nose Rings....3" 50c, 2½" 45c, 2" 40c

The above mailed you upon receipt of price named.



Banner Root Cutter

HAND AND POWER

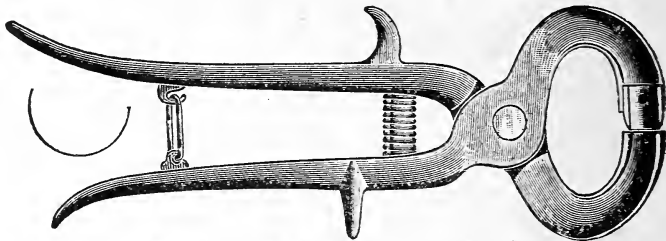


Has a capacity of 30 to 100 bushels per hour. One bushel per minute has been cut as a test, many times.

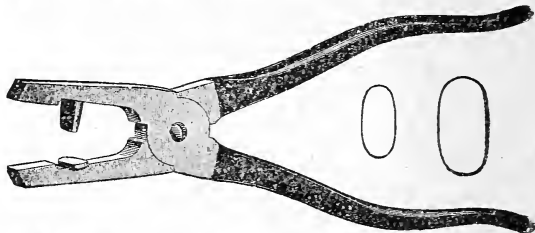
No. 7—For Poultry...\$7.00

No. 20—Hand Power...18.00

No. 30—Pulley and crank32.00



Dana's Bull Nose Punch.



Dana's Cattle and Sheep Punch.

Hog Rings

30 Cents

Per Box.

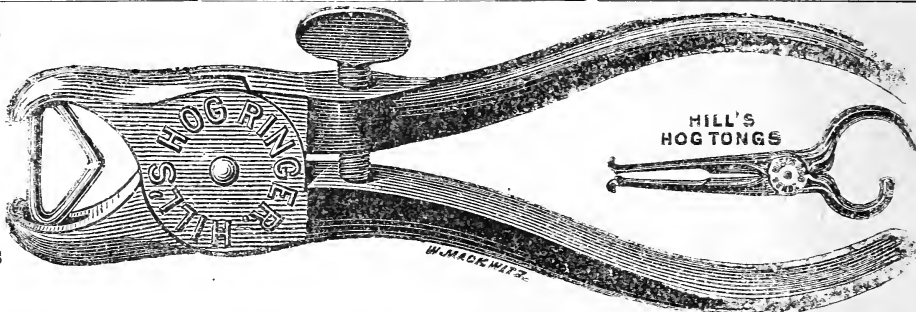
Hog

Ringer

75 Cents

Hog Tongs

\$1 00



A COMBINATION TOOL

7--SEVEN TOOLS IN ONE--7

Price \$2.00

Here's the handiest tool a farmer ever can own. Stop and think. It drives, pulls, makes and saves staples. It's a wrench and pincer, nail puller and hammer. It cuts, splices, straightens and tightens wire. It removes trellises.

Saves time and wages; saves cutting hand; saves your temper, and it saves chasing cattle. You need one. Write now. It's only \$2.00.



NEEDED BY 6,000,000 FARMERS.
It takes the Place of Button Pliers.

CASTINGS REPAIRED

Cast Iron, Steel and other Metals repaired and mended on short notice by the new welding process. Bring in your parts for repairing. This work can be done on short notice.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BEEMAN Garden Tractor

Takes the Place of a
Horse or Mule for
Plowing, Harrowing
or Cultivating

It Cultivates Any Crop Grown
in Rows

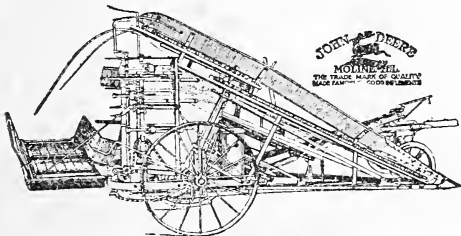
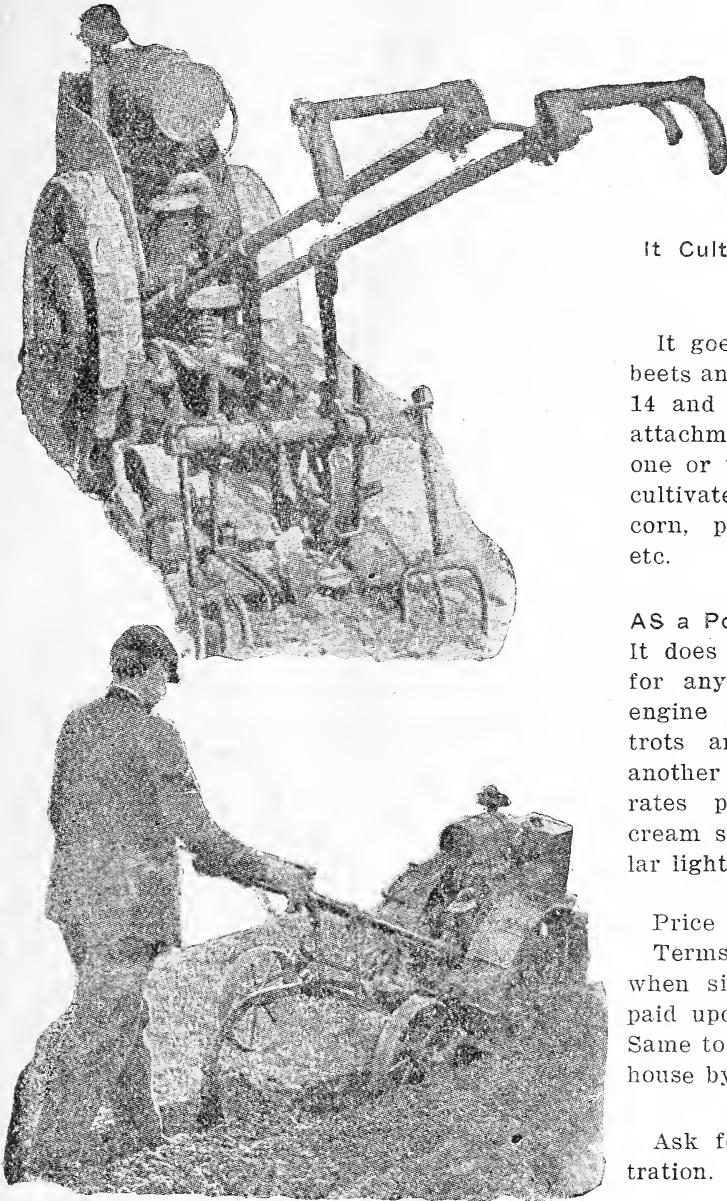
It goes astride onions, carrots, beets and other crops grown in 12, 14 and 16-inch rows. We make attachments for cultivating either one or three rows at a time. It cultivates between wide rows of corn, potatoes, tobacco, cotton, etc.

AS a Power Plant for Belt Work
It does away with the necessity for any other four-horse power engine on the farm, because it trots around from one job to another on its own power. Operates pump, washing machine, cream separator, and other similar light farm machinery.

Price \$285.00...

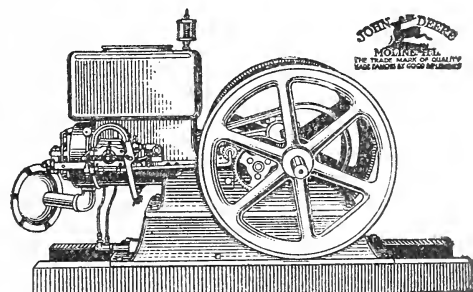
Terms—\$50.00 cash with order when signed, and balance to be paid upon arrival of the Tractor. Same to be taken from the freight house by the purchaser.

Ask for particulars with illustration.



DEERE CORN HARVESTER

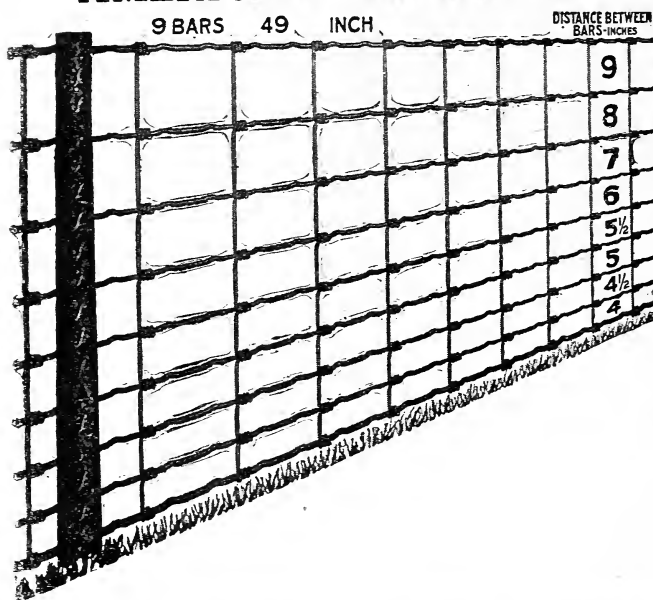
This represents the best in corn harvesting machinery. Ask for special prices and catalog.



GAS ENGINES

In all sizes and prices. Get our catalog and figures before buying.

“AMERICAN” STOCK AND CATTLE FENCING



This is a fence that fences and stays fenced. It stands for freedom from worry. With this fence you can rest easy and need fear no danger of your stock breaking out.

In this fencing we have every form of fences for sheep, hogs and cattle. It's made in two weights, medium and heavy.

Here's an especially interesting feature about this fencing—it's not only one of the best made but the cost is very small. The price was never so high as now. We have plenty in stock of the leading sizes. Ask or write for booklet.

The Lost Fence Stretcher is the only tool necessary for putting up the American Field and Hog Fencing. Every farmer should own this Stretcher. It costs only \$8.00.

A Wonderful Fence

There's no better fencing made for hogs, cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thoroughly practical and more durable than netting. The light specifications are strong enough to turn stock.

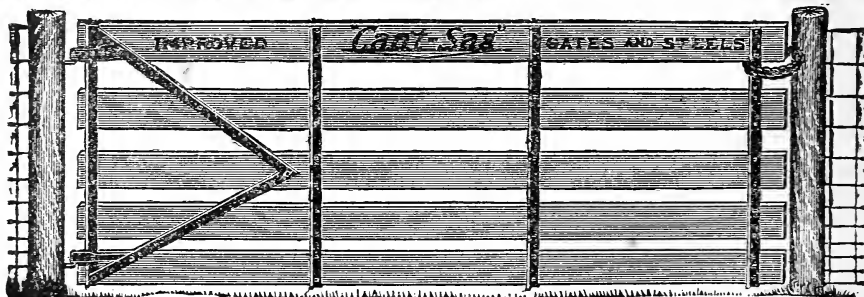
This fencing comes in 6 to 21 bars, in 6 and 12-inch stays, 24 to 58 inches high.

FENCING, POSTS and GATES

RETAIL PRICE LIST

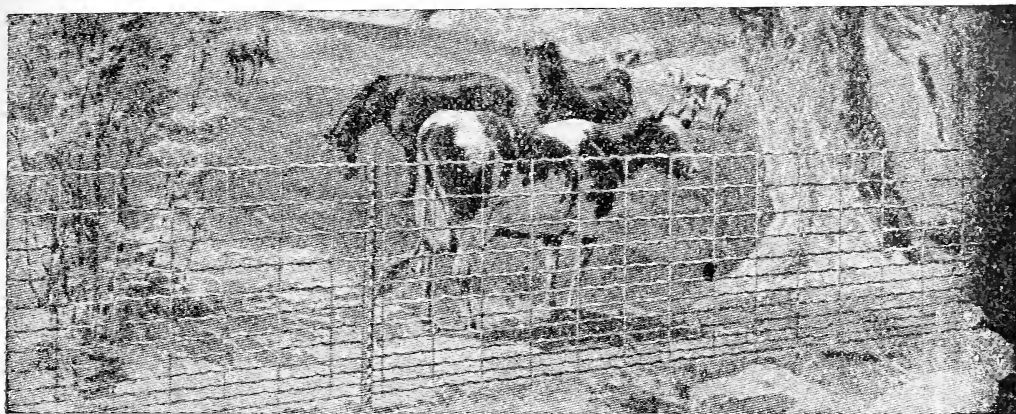
FENCING		Per Rod
635	Style A—12-inch.....	\$.32
726	Style A—6-inch.....	.52
822	Style A—6-inch.....	.60
845	Style A—12-inch.....	.56
949	Style A—12-inch.....	.56
845	Style D—12-inch.....	.70
949	Style D—12-inch.....	.79
1047	Style A—12-inch.....	.58
1155	Style D—12-inch.....	.95
1558	Style E—6-inch.....	.85
1948	Style F—6-inch.....	.75
2158	Style F—6-inch.....	.85
1635	Style F—6-inch.....	.60
LINE POSTS, 6 feet.....		.66
LINE POSTS, 7 feet.....		.65
LINE POSTS, 8 feet.....		.75
LINE POSTS, 9 feet.....		.85
CORNER POSTS, 8 feet.....		5.25
CORNER POSTS, 9 feet.....		5.90
END POSTS, 8 feet.....		3.85
END POSTS, 9 feet.....		4.25
12-ft. American Gates, 50-in. plain top.....		10.25
14-ft. American Gates, 50-in. 3-ft. American Walk Gates, 42-in. plain top.....		11.50
4-ft. American Gates, 42-in. plain top.....		3.75
		4.25

CAN'T-SAG FARM GATE



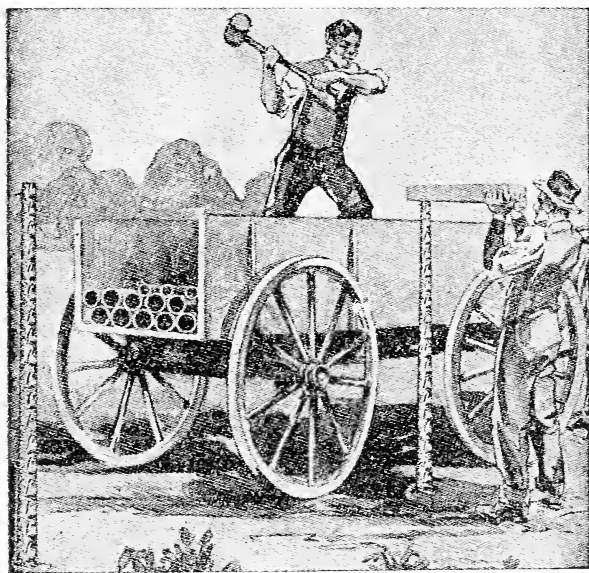
This splendid farm gate does away with all the old gate troubles that have harassed farmers for many years. They will stay just as they are put up. Will not sag, always ready for business, made of best material, and is the only real dependable wood gate on the market. A trial of this gate will introduce a lot more of them in your neighborhood.

PRICE—12 ft., \$8.00 14-ft. Gate \$9.00. Steel metal parts for "Can't-Sag Gate," \$4.00.



The above illustration indicates design 1258 of American Steel Fencing, which is eminently satisfactory for general farm purposes. The close spacing at the bottom will keep Hogs, also hold Sheep, Cattle and Horses.

We carry a full line of everything in the way of STEEL FENCING for Horses, Stock, Sheep, Hogs and Poultry. Price very reasonable.



STEEL POSTS

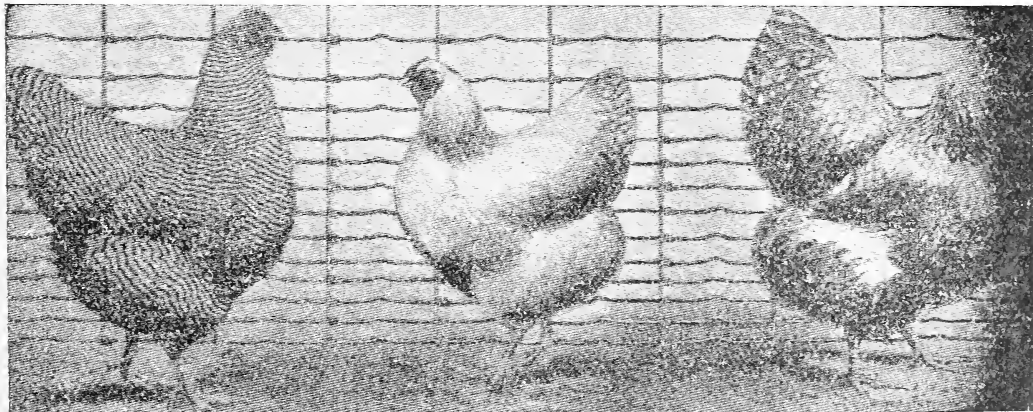
Note the very simple method of driving steel fence posts. Two men, horse and wagon do the work rapidly. We carry a large stock at our warehouse at the following prices:

Price List

LINE POSTS, 6 feet.....	\$.60
LINE POSTS, 7 feet.....	.65
LINE POSTS, 8 feet.....	.75
LINE POSTS, 9 feet.....	.85
END POSTS, 8 feet.....	3.85
END POSTS, 9 feet.....	4.25
CORNER POSTS, 8 feet.....	5.25
CORNER POSTS, 9 feet.....	5.90
12-ft. American Gate.....	10.25
14-ft. Gate, American, 50-in....	11.50
3-ft. Single Walk Gate, plain....	3.75
4-ft. Single Walk Gate, plain....	4.25

There's no better fencing made for hogs, cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thoroughly practical and more durable than netting. The light specifications are strong enough to turn stock.

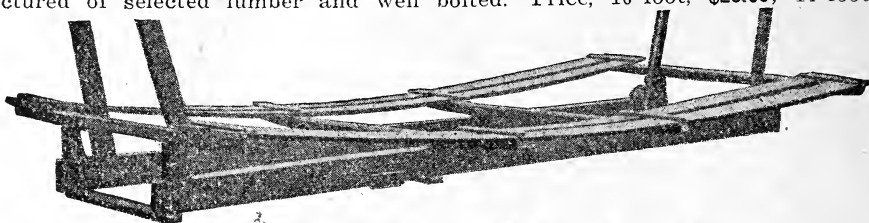
This fencing comes in 8 to 15 bars, either in 6 or 12 inch stays, 20 to 50 inches high.



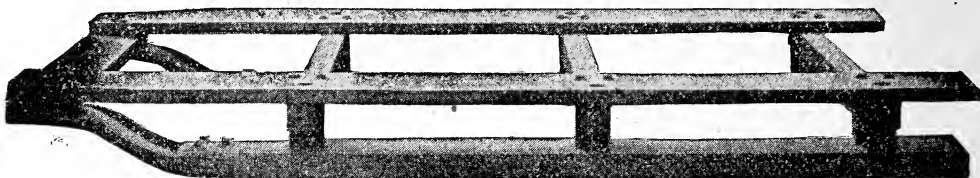
PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

MERIDIAN HAY RACK.

Manufactured of selected lumber and well bolted. Price, 16-foot, \$23.00; 14-foot, \$21.50.



OUR IMPROVED SLIP.



The above cut represents our Improved Slip, which any farmer can make by using our castings, which are shown in the front part of the cut. These castings are all finished and ready for the 3x6 inch maple runners. Since it is impossible to get Slip Runners sawed with the right sweep, any farmer will appreciate the benefit of our castings at a glance.

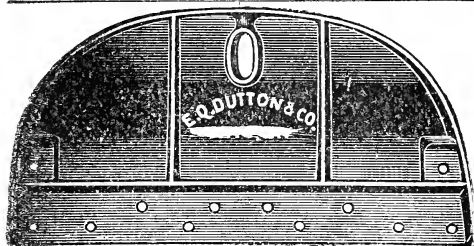
All complete like above cut, \$15.00

Set of Shoes for above, \$4.00

IRON HOG TROUGHS.



Made in four sizes, 3, 4, 5 and 6 feet, 8 inches deep, 12 inches wide. Price, \$1.45 per foot.



IRON STONE BOAT HEAD.

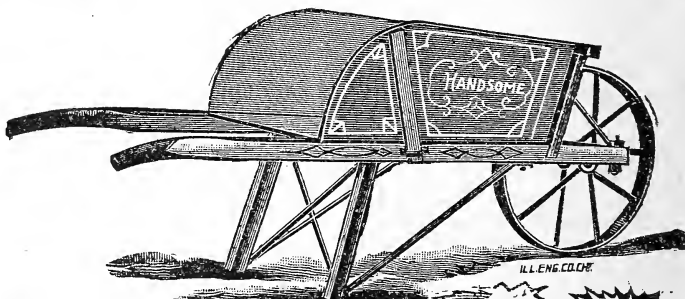
A Simple, Complete and Inexpensive device whereby a Stone Boat can be made in a few minutes by using straight plank. One head will last for years.

Price \$6.00 Each

GARDEN

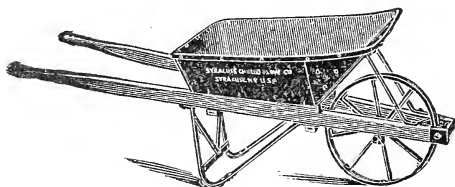
BARROWS.

Price \$8.00



STEEL TRAY BARROW

The framework of this barrow is bolted together and is fitted with a steel tray and patent wood wheel with iron hub, specially adapted for stable work. **Deep Steel Tray, No. 75-A \$8.50.** We also offer **The Common Wood or Paddy Barrow**, with iron or wood wheels, \$3.00 and \$3.50

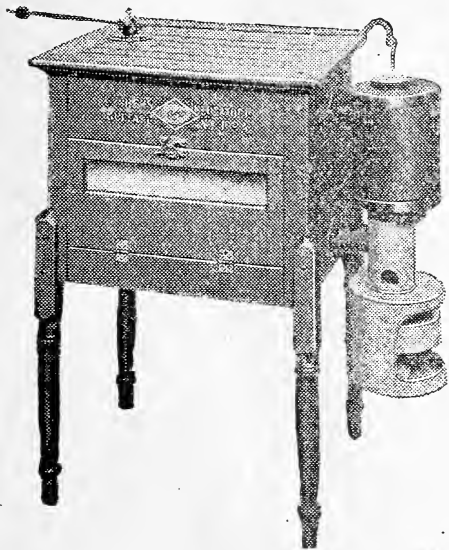


ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

GENUINE CYPHERS COMPANY INCUBATORS PATENTED

Made in Four Sizes

For the season of 1920 we offer our customers the Cyphers Incubator Company's complete line of Incubators. This style of high class, guaranteed hatching machines, running through four different sizes, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company Incubator you take no chance.



Standard Cyphers Incubators

These are machines that for twenty years have been recognized as the "Standard Hatchers of the World." Tens upon tens of thousands of them have been sold and are in successful use in every civilized country on the globe. They are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms, and by a larger number of foremost poultry breeders than all other makes combined. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in all climes, under widely different conditions, in the hands of all sorts of people. They are built to hatch and to last. With ordinary care they should last an ordinary lifetime. Every Standard Cyphers Incubator is guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial. Are built in four popular sizes and at prices as follows:

PRICE LIST

Standard Incubator No. 0, 70-egg, price each.....	\$33.00
Standard Incubator No. 1, 144-egg, price each.....	42.00
Standard Incubator No. 2, 244-egg, price each.....	56.00
Standard Incubator No. 3, 390-egg, price each.....	69.00
Cyphers Center Lamp Portable Hover, price each.....	13.50
Adaptable Hover, price each.....	18.00
Blue-flame Wickless Oil Burner Hovers—	
No. Capacity	
30-inch Hover, 350 chicks or less, price each.....	17.50
42-inch Hover, 500 chicks or less, price each.....	20.00
52-inch Hover, 1000 chicks or less, price each.....	22.50
Cyphers Coal Burning Colony Brooder—	
Outfit No. 10, 41-inch Hover, price each.....	21.50
Outfit No. 20, 52-inch Hover, price each.....	26.50
Style "B" Outside Brooder, price each.....	35.00
Paradise Brooder, Base Section, price each.....	25.00

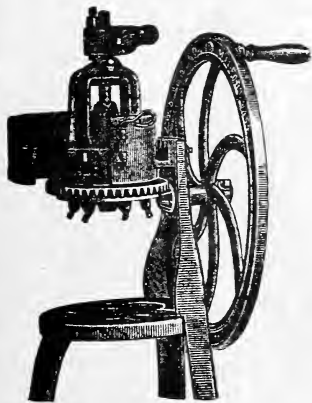
MANN'S CELEBRATED BONE CUTTERS

We offer the best Bone Mill on the market. Fully warranted against breakage for two years. The only machine that will cut green bone fine enough for Bantams and little chickens.

Price List of Mann's Green Bone Cutters

No. 5C with Crank Handle.....	\$ 9.50
No. 5B with Balance Wheel	12.50
No. 5BM with Balance Wheel and Iron Stand.....	16.00
No. 7 with Balance Wheel and Iron Stand.....	18.50
No. 7½ Hand and Power	25.00
No. 9 Hand and Power	28.50
No. 11 Power Machine	40.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Queen Incubators



STOP HATCHING WEAK CHICKS!

with cheap incubators. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.

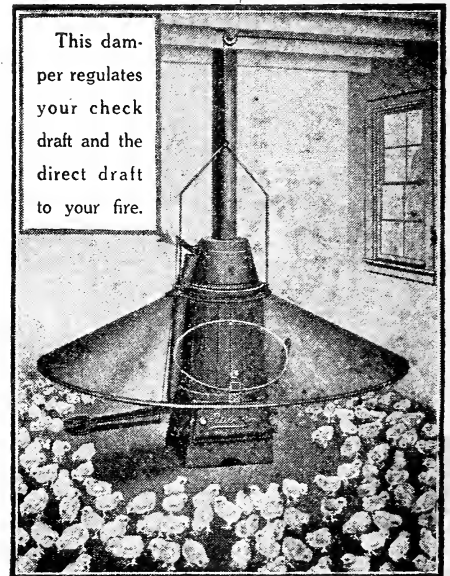
Remember, it is not how many chicks you hatch that counts, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you but trouble and loss. They make one sick of the poultry business.

Most of the chicks you lose in the first few weeks die because they did not have, when hatched, enough strength or vitality for a good start.

QUEEN BROODER STOVES

The Queen Brooder Stove is just what is needed to keep the house comfortable for the early chicks. It is the only Brooder Stove in which both fire and amount of heat are automatically controlled by one thermostat, and one connecting rod.

Damper indicated by arrow regulates the check draft and the direct draft to the fire. Gas controlled above deflector. No gas can escape below to injure chicks. Hover is collapsible, made in sections, and easy to put together and take apart. Holds enough coal to last 40 to 48 hours.



STYLE K INCUBATORS

No.	Capacity	Retail Price
20.....	70 egg	\$16.50
21.....	130 egg	27.50
22.....	220 egg	36.75

QUEEN BROODER STOVES

No.	Capacity	Retail Price
1.....	600 chick	\$21.50
2.....	1200 chick	26.50

pratt's

POULTRY REGULATOR POULTRY REMEDIES BABY CHICK FOOD

SATISFACTION GUARANTEED OR MONEY BACK



It is surprising how even scrub stock can be made to lay when given a proper laying ration combined with Pratt's Poultry Regulator, and it will make the laying strains lay even better.

Pratt's Poultry Regulator regulates and tones up the entire system.

It gets hens quickly over the molt, insures early pullet maturity and is a guarantee of plenty of winter eggs. It prevents most all the common poultry ailments; is a tonic as well as a digestive. Makes the feed go farther, and helps prevent birds going off condition.

Packages, 25c, 50c and \$1.10; 12-lb. pails, \$1.65; 25-lb. pails, \$3.00.

Don't let Roup cut your profits.

Prevent this costly, contagious disease. The sure and easy "ounce of prevention" is



PRATT'S ROUP PREPARATION

A safe prevention and cure for roup, colds, catarrh, diphtheria and many bad weather troubles.

Quickly absorbed by the blood, it purifies the system, reduces the fever and allays inflammation.

Tablets or Powder, 25c, 50c.

If poultry keepers would regularly spray the chicken houses, roosts, dropping boards and utensils with

Pratt's Poultry Disinfectant

most common troubles would vanish.

Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and liquid lice killer. Use it to aid in the relief of roup, colds and other contagious diseases. Quart, 55c; gallon, \$1.60.

You will raise every possible chick, and even the weak ones come along in a few days as strong as the rest if you feed them **PRATT'S BABY CHICK FOOD WITH BUTTERMILK.**

It does make chicks live. A complete food for the first three weeks.

It helps prevent white diarrhoea, leg weakness and digestive troubles.

It more than speaks for itself from the chicks it saves.

Costs only a cent a chick for three weeks.

14-lb. Bag, \$1.50. Packages, 35c and 70c.



It helps protect your chicks from white diarrhoea, the most destructive of all chick diseases, we recommend the use of **PRATT'S WHITE DIARRHOEA TABLETS.**

50c and 75c.

in the drinking water from the first drink. This remedy has saved many dollars worth of chicks for poultry raisers. You can depend on it.



Get rid of lice on your poultry, in nests, dustbaths, incubators and elsewhere by using

Pratt's Powdered Lice Killer

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Effective, non-irritating. It quickly kills lice on little chicks, big chicks, setting hens and incubator chicks. It rids horses, cattle, hogs, dogs and cats of lice, and destroys ticks on sheep. It destroys many insects and bugs on vines, plants and flowers. Drives out moths from closets, furniture, carpets and clothing.

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Healing Powder, 25c.
Veterinary Colic Remedy, 75c.
Worm Powder, 50c.
Heave Cough and Cold Remedy, 50c.
Cow Tonic Remedy, 50c.
Hog Tonic Remedy, 50c.
Red Mite Special, 50c.
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Poultry Disinfectant, 60c and \$1.75.
Poultry Dip, 60c.
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Chicken Cholera, 25c and 50c.

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Louse Killer, 25c and 50c.
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Roup Remedy, 25c.
Worm Powder, 50c.
Heave Powder, 50c.

CONKEY'S REMEDIES

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Canker and Bronchitis Remedy, 50c.
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Ant Driver, 30c.
Cutworm Remedy, 30c.
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